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OK protein - protein search, using sw model

Run on: September 11, 2003, 03:20:09; Search time 21 Seconds

(Without alignments)
592,352 Million cell updates/sec

Title: US-09-688-459-11

Perfect score: 1561

Sequence: 1 GYPHEGFLHPAPSAPAPAPPP.....LDDPDQATYFGAFKVDID 294

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents-AA:
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/1aa/6C.COMB.pep.*
6: /cgn2_6/ptodata/2/1aa/6D.COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	1561	100.0	294	3	US-08-996-139-11
2	1561	100.0	294	3	US-08-995-659-11
3	1561	100.0	294	3	US-09-215-649A-11
4	1561	100.0	294	4	US-09-577-780-11
5	1561	100.0	294	4	US-09-577-800-11
6	1561	100.0	294	4	US-09-466-496-11
7	1561	100.0	294	4	US-09-871-856-11
8	1561	100.0	294	4	US-09-871-291-11
9	1554	99.6	316	2	US-08-842-842-7
10	1554	99.6	316	2	US-08-989-362-2
11	1554	99.6	316	4	US-09-052-521C-2
12	1554	99.6	316	4	US-09-671-658A-2
13	1326.5	85.0	317	3	US-08-996-139-11
14	1326.5	85.0	317	3	US-08-995-659-13
15	1326.5	85.0	317	3	US-09-052-521C-4
16	1326.5	85.0	317	4	US-09-577-800-11
17	1326.5	85.0	317	4	US-09-577-800-13
18	1326.5	85.0	317	4	US-09-466-496-13
19	1326.5	85.0	317	4	US-09-871-856-13
20	1326.5	85.0	317	4	US-09-871-291-13
21	1326.5	85.0	317	4	US-09-632-287A-10
22	422	27.0	77	4	US-09-871-291-13
23	363	23.3	77	4	US-09-632-287A-11
24	258.5	16.6	279	4	US-09-072-993C-3
25	258.5	16.6	281	3	US-08-670-354-2
26	258.5	16.6	281	3	US-08-584-031-1
27	258.5	16.6	281	3	US-08-780-496-1

28	258.5	16.6	281	3	US-08-883-086-10	Sequence 10, Appl
29	258.5	16.6	281	3	US-09-320-424-2	Sequence 2, Appl
30	258.5	16.6	281	4	US-09-333-593A-6	Sequence 6, Appl
31	258.5	16.6	281	4	US-09-157-864-11	Sequence 11, Appl
32	258.5	16.6	281	4	US-09-825-563-2	Sequence 2, Appl
33	258.5	16.6	281	4	US-10-039-785-66	Sequence 66, Appl
34	258.5	16.6	281	5	PCT-US96-10895-2	Sequence 2, Appl
35	251	16.1	291	1	US-08-670-354-6	Sequence 6, Appl
36	251	16.1	291	3	US-09-320-424-6	Sequence 6, Appl
37	251	16.1	291	4	US-09-825-563-6	Sequence 6, Appl
38	251	16.1	291	5	PCT-US96-10895-6	Sequence 6, Appl
39	239	15.3	256	3	US-09-320-424-13	Sequence 13, Appl
40	239	15.3	256	4	US-09-825-563-13	Sequence 13, Appl
41	235.5	15.1	253	3	US-09-320-424-11	Sequence 11, Appl
42	235.5	15.1	253	4	US-09-825-563-11	Sequence 11, Appl
43	229.5	14.7	177	3	US-09-105-343A-7	Sequence 7, Appl
44	228.5	14.6	161	4	US-09-565-423-7	Sequence 7, Appl
45	224	14.3	183	3	US-09-105-343A-8	Sequence 8, Appl

ALIGNMENTS

RESULT 1
US-08-996-139-11
Sequence 11, Application US/08996139
Patent No. 6017729
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Gallbert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,139
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-996-139-11

Query Match 100.0%; Score 1561; DB 3; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGPIHPAPASAPAPAPAPASRSNMFALLGIGLQVCSIALFLYFRQMDPNRIS 60
DB 1 GVPHEGPIHPAPASAPAPAPAPASRSNMFALLGIGLQVCSIALFLYFRQMDPNRIS 60
QY 61 DSTHCFYILRLHENAADLDSTLESEDTLPDSCRMMKQAFQAVQKELQHVGPORFSGA 120
DB 61 DSTHCFYILRLHENAADLDSTLESEDTLPDSCRMMKQAFQAVQKELQHVGPORFSGA 120
QY 121 PAMEGSLDVAQKGPFAOPFAHITNAASIPSGSHKVTLSWYHDSMAKISNMTLSN 180
DB 121 PAMEGSLDVAQKGPFAOPFAHITNAASIPSGSHKVTLSWYHDSMAKISNMTLSN 180
QY 181 GKLAVNODGFEYLYLANICFRHHETSGSVPTDYQLWVYVVKTSIKIPSSHNLKKGSTKN 240
DB 181 GKLAVNODGFEYLYLANICFRHHETSGSVPTDYQLWVYVVKTSIKIPSSHNLKKGSTKN 240
QY 241 WSGNSEHFYSINVGCFKRLAGEEISIOVSNPSLLDPDQATYFGAFKVODID 294
DB 241 WSGNSEHFYSINVGCFKRLAGEEISIOVSNPSLLDPDQATYFGAFKVODID 294

RESULT 2
US-08-995-659-11
Sequence 11, Application US/08995659
Patent No. 6242213
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/995,659
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)233-0644
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-995-659-11

Query Match 100.0%; Score 1561; DB 3; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGPIHPAPASAPAPAPAPASRSNMFALLGIGLQVCSIALFLYFRQMDPNRIS 60
DB 1 GVPHEGPIHPAPASAPAPAPAPASRSNMFALLGIGLQVCSIALFLYFRQMDPNRIS 60
QY 61 DSTHCFYILRLHENAADLDSTLESEDTLPDSCRMMKQAFQAVQKELQHVGPORFSGA 120
DB 61 DSTHCFYILRLHENAADLDSTLESEDTLPDSCRMMKQAFQAVQKELQHVGPORFSGA 120
QY 121 PAMEGSLDVAQKGPFAOPFAHITNAASIPSGSHKVTLSWYHDSMAKISNMTLSN 180
DB 121 PAMEGSLDVAQKGPFAOPFAHITNAASIPSGSHKVTLSWYHDSMAKISNMTLSN 180
QY 181 GKLAVNODGFEYLYLANICFRHHETSGSVPTDYQLWVYVVKTSIKIPSSHNLKKGSTKN 240
DB 181 GKLAVNODGFEYLYLANICFRHHETSGSVPTDYQLWVYVVKTSIKIPSSHNLKKGSTKN 240
QY 241 WSGNSEHFYSINVGCFKRLAGEEISIOVSNPSLLDPDQATYFGAFKVODID 294
DB 241 WSGNSEHFYSINVGCFKRLAGEEISIOVSNPSLLDPDQATYFGAFKVODID 294

RESULT 3

US-09-215-649A-11
Sequence 11, Application US/09215649A
Patent No. 6271349

GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/215,649A
FILING DATE: 17-DEC-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/996,139
FILING DATE: <Unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-215-649A-11

Query Match 100.0%; Score 1561; DB 3; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGRLHPASAPAPAPPAPASRSMFLALGLGQVCSIALFLYFRQMPNRIS 60
DB 1 GVPHEGRLHPASAPAPAPPAPASRSMFLALGLGQVCSIALFLYFRQMPNRIS 60
QY 61 DSTHCFYRLRLHENADLDSTLESEDTLPDSCRMKQAFQAVOKELQHYVGFQPSGA 120
DB 61 DSTHCFYRLRLHENADLDSTLESEDTLPDSCRMKQAFQAVOKELQHYVGFQPSGA 120
QY 121 PAMEGSWLDVAQKPKPAOPFAHLITNAASIPSGSHKVTLSWYHGRGNAKISNMTLSN 180
DB 121 PAMEGSWLDVAQKPKPAOPFAHLITNAASIPSGSHKVTLSWYHGRGNAKISNMTLSN 180
QY 181 GKLRYNODGFYLLANICFRHETSGSVPTDYQLAMYYVKTSTIKIPSSHMLKMGSTKN 240
DB 181 GKLRYNODGFYLLANICFRHETSGSVPTDYQLAMYYVKTSTIKIPSSHMLKMGSTKN 240
QY 241 WSGNSEHFHYISINVGFFKLRAGEISIOVSNPSLDDPDATYFGAFKQVODID 294
DB 241 WSGNSEHFHYISINVGFFKLRAGEISIOVSNPSLDDPDATYFGAFKQVODID 294

RESULT 4

US-09-577-780-11
Sequence 11, Application US/09577780
Patent No. 6419829

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

Maraskovsky, Eugene

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: Apple Operating System 7.5.5

SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/577,780

FILING DATE: 24-May-2000

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/995,659

FILING DATE: <unknown>

APPLICATION NUMBER: USSN 08/813,509

FILING DATE: 07 MARCH 1997

APPLICATION NUMBER: USSN 08/772,330

FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2852-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 294; amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-577-780-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGRLHPASAPAPAPPAPASRSMFLALGLGQVCSIALFLYFRQMPNRIS 60
DB 1 GVPHEGRLHPASAPAPAPPAPASRSMFLALGLGQVCSIALFLYFRQMPNRIS 60
QY 61 DSTHCFYRLRLHENADLDSTLESEDTLPDSCRMKQAFQAVOKELQHYVGFQPSGA 120
DB 61 DSTHCFYRLRLHENADLDSTLESEDTLPDSCRMKQAFQAVOKELQHYVGFQPSGA 120
QY 121 PAMEGSWLDVAQKPKPAOPFAHLITNAASIPSGSHKVTLSWYHGRGNAKISNMTLSN 180
DB 121 PAMEGSWLDVAQKPKPAOPFAHLITNAASIPSGSHKVTLSWYHGRGNAKISNMTLSN 180
QY 181 GKLRYNODGFYLLANICFRHETSGSVPTDYQLAMYYVKTSTIKIPSSHMLKMGSTKN 240
DB 181 GKLRYNODGFYLLANICFRHETSGSVPTDYQLAMYYVKTSTIKIPSSHMLKMGSTKN 240
QY 241 WSGNSEHFHYISINVGFFKLRAGEISIOVSNPSLDDPDATYFGAFKQVODID 294
DB 241 WSGNSEHFHYISINVGFFKLRAGEISIOVSNPSLDDPDATYFGAFKQVODID 294

RESULT 5

US-09-577-800-11
Sequence 11, Application US/09577800
Patent No. 6479635

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

Maraskovsky, Eugene

TITLE OF INVENTION: Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: Apple Power Macintosh

SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/577,800

FILING DATE: 24-May-2000

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/996,139

FILING DATE: 22 DECEMBER 1997

APPLICATION NUMBER: USSN 60/064,671

FILING DATE: 14 OCTOBER 1997

APPLICATION NUMBER: USSN 08/813,509

FILING DATE: 07 MARCH 1997

APPLICATION NUMBER: USSN 08/772,330

FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
REFERENCE/DOCKET NUMBER: 2851-A
TELEPHONE: (206)587-0430
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-577-800-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGLHPAPSPAPAPPPAASRSWFLALGLGIGVVCSTALFLYRAQMDPRRISE 60
DB 1 GVPHEGLHPAPSPAPAPPPAASRSWFLALGLGIGVVCSTALFLYRAQMDPRRISE 60
QY 61 DSTHCFYRILRLHENDLDOSTLESEDTLPDSCRKKAFOGAVOKELQHYGPORFSGA 120
DB 61 DSTHCFYRILRLHENDLDOSTLESEDTLPDSCRKKAFOGAVOKELQHYGPORFSGA 120
QY 121 PAMWESWLDVAORGRPEAOPFAHLITNAASIPSGSHKVTLSWYHDRGMKISNMTLSN 180
DB 121 PAMWESWLDVAORGRPEAOPFAHLITNAASIPSGSHKVTLSWYHDRGMKISNMTLSN 180
QY 181 GKLRVNDGFYLLYANICFRHNETSGSVPTDYLQIMVYVVKSTIPSSHNLKMGSTKN 240
DB 181 GKLRVNDGFYLLYANICFRHNETSGSVPTDYLQIMVYVVKSTIPSSHNLKMGSTKN 240
QY 241 WSGNSEFHYSINVGFFFLRAGEEISTOVSNPILDDPDODATYFGARKVDID 294
DB 241 WSGNSEFHYSINVGFFFLRAGEEISTOVSNPILDDPDODATYFGARKVDID 294

RESULT 5

US-09-466-496-11
Sequence 11, Application US/09466496
Patent No. 6528482

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/466,496
FILING DATE: 17-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/996,139
FILING DATE: 22 DECEMBER 1997
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-466-496-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGLHPAPSPAPAPPPAASRSWFLALGLGIGVVCSTALFLYRAQMDPRRISE 60
DB 1 GVPHEGLHPAPSPAPAPPPAASRSWFLALGLGIGVVCSTALFLYRAQMDPRRISE 60
QY 61 DSTHCFYRILRLHENDLDOSTLESEDTLPDSCRKKAFOGAVOKELQHYGPORFSGA 120
DB 61 DSTHCFYRILRLHENDLDOSTLESEDTLPDSCRKKAFOGAVOKELQHYGPORFSGA 120
QY 121 PAMWESWLDVAORGRPEAOPFAHLITNAASIPSGSHKVTLSWYHDRGMKISNMTLSN 180
DB 121 PAMWESWLDVAORGRPEAOPFAHLITNAASIPSGSHKVTLSWYHDRGMKISNMTLSN 180
QY 181 GKLRVNDGFYLLYANICFRHNETSGSVPTDYLQIMVYVVKSTIPSSHNLKMGSTKN 240
DB 181 GKLRVNDGFYLLYANICFRHNETSGSVPTDYLQIMVYVVKSTIPSSHNLKMGSTKN 240
QY 241 WSGNSEFHYSINVGFFFLRAGEEISTOVSNPILDDPDODATYFGARKVDID 294
DB 241 WSGNSEFHYSINVGFFFLRAGEEISTOVSNPILDDPDODATYFGARKVDID 294

RESULT 7

US-09-871-856-11
Sequence 11, Application US/09871856
Patent No. 6537763

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/871,856
FILING DATE: 31-May-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/996,139
FILING DATE: <Unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996

Thu Sep 11 16:16:48 2003

us-09-688-459-11.ra1

Page 5

ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids
TYPE: amino acid
MOLECULE TYPE: linear
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-871-856-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGLHPAPAPAPAPAPASRMFLALGLGQVVCIALFLYFRAQMDPNRISE 60
DB 1 GVPHEGLHPAPAPAPAPAPASRMFLALGLGQVVCIALFLYFRAQMDPNRISE 60
QY 61 DSTHCFYRLRLHENADLDSTLESDTLPSDCRNMKQAFQAVOKELQHYVGPORFSGA 120
DB 61 DSTHCFYRLRLHENADLDSTLESDTLPSDCRNMKQAFQAVOKELQHYVGPORFSGA 120
QY 121 PAMMGSMVDVQKRPKPEAPFAHLTINASIPSGSHKVTLSMYHDSGNKAKISMNLTSLN 180
DB 121 PAMMGSMVDVQKRPKPEAPFAHLTINASIPSGSHKVTLSMYHDSGNKAKISMNLTSLN 180
QY 181 GRLRVNODGFYLLVNICFRHETSGSVPTDYLQLMYVVTSTIKIPSSHMLMGSGSTKN 240
DB 181 GRLRVNODGFYLLVNICFRHETSGSVPTDYLQLMYVVTSTIKIPSSHMLMGSGSTKN 240
QY 241 MSGNSEFHFYSINVGFFKLRAGEISIQVSNPSILDDPDQATYFGAFKQYDID 294
DB 241 MSGNSEFHFYSINVGFFKLRAGEISIQVSNPSILDDPDQATYFGAFKQYDID 294

RESULT 8
US-09-871-291-11
Sequence 11, Application US/09871291
Patent No. 5652848
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/871,291
FILING DATE: 30-May-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/996,139
FILING DATE: <unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330

FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 294 amino acids
TYPE: amino acid
MOLECULE TYPE: linear
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-871-291-11

Query Match 100.0%; Score 1561; DB 4; Length 294;
Best Local Similarity 100.0%; Pred. No. 5e-153;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GVPHEGLHPAPAPAPAPAPASRMFLALGLGQVVCIALFLYFRAQMDPNRISE 60
DB 1 GVPHEGLHPAPAPAPAPAPASRMFLALGLGQVVCIALFLYFRAQMDPNRISE 60
QY 61 DSTHCFYRLRLHENADLDSTLESDTLPSDCRNMKQAFQAVOKELQHYVGPORFSGA 120
DB 61 DSTHCFYRLRLHENADLDSTLESDTLPSDCRNMKQAFQAVOKELQHYVGPORFSGA 120
QY 121 PAMMGSMVDVQKRPKPEAPFAHLTINASIPSGSHKVTLSMYHDSGNKAKISMNLTSLN 180
DB 121 PAMMGSMVDVQKRPKPEAPFAHLTINASIPSGSHKVTLSMYHDSGNKAKISMNLTSLN 180
QY 181 GRLRVNODGFYLLVNICFRHETSGSVPTDYLQLMYVVTSTIKIPSSHMLMGSGSTKN 240
DB 181 GRLRVNODGFYLLVNICFRHETSGSVPTDYLQLMYVVTSTIKIPSSHMLMGSGSTKN 240
QY 241 MSGNSEFHFYSINVGFFKLRAGEISIQVSNPSILDDPDQATYFGAFKQYDID 294
DB 241 MSGNSEFHFYSINVGFFKLRAGEISIQVSNPSILDDPDQATYFGAFKQYDID 294

RESULT 9
US-08-842-842-7
Sequence 7, Application US/08842842
Patent No. 5843678
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Dehavenland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91230-1789

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/842,842
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-451
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 316 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-842-842-7

Query Match: 99.6%; Score 1554; DB 2; Length 316;
Best Local Similarity 99.7%; Pred. No. 3e-152;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GVPHEGPLHAPASAPAPAPPAASRSMLLGLIGLOVVCSTALFLYFAQNDPNRISE 60
DB 23 GVPHEGPLHAPASAPAPPAASRSMLLGLIGLOVVCSTALFLYFAQNDPNRISE 82
QY 61 DSTHCFYRILRLHENAADLDSTLESEDTLPDSCRMRKQAFQAVOKELQIIVGPOFSGA 120
DB 83 DSTHCFYRILRLHENAADLDSTLESEDTLPDSCRMRKQAFQAVOKELQIIVGPOFSGA 142
QY 121 PAMWEGSLDVAORGRPEAOPFAHLITINAASIPSGSKRYLSSWYHDSGMKAKISNMTLSN 180
DB 143 PAMWEGSLDVAORGRPEAOPFAHLITINAASIPSGSKRYLSSWYHDSGMKAKISNMTLSN 202
QY 181 GKLRYNODGFYLLYANICFRHNETSGSVPTDYQLMLVYVVKTSIKIPSSHNLKMGSTKN 240
DB 203 GKLRYNODGFYLLYANICFRHNETSGSVPTDYQLMLVYVVKTSIKIPSSHNLKMGSTKN 262
QY 241 WSGNSEHFYYSINVGFFKLRAAGEISIOVSNPSLLDPDQDATYFGAFKVDID 294
DB 263 WSGNSEHFYYSINVGFFKLRAAGEISIOVSNPSLLDPDQDATYFGAFKVDID 316

RESULT 10

US-08-989-362-2
Sequence 2, Application US/08989362
Patent No. 6242586
GENERAL INFORMATION:
APPLICANT: Gorman, Daniel M.
TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESS: DNA Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/989,362
FILING DATE: 12-DEC-1997
CLASSIFICATION: 56
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/032,846
FILING DATE: 13-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: DX0686
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1204
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 315 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-989-362-2

Query Match: 99.6%; Score 1554; DB 3; Length 316;
Best Local Similarity 99.7%; Pred. No. 3e-152;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GVPHEGPLHAPASAPAPPAASRSMLLGLIGLOVVCSTALFLYFAQNDPNRISE 60
DB 23 GVPHEGPLHAPASAPAPPAASRSMLLGLIGLOVVCSTALFLYFAQNDPNRISE 82
QY 61 DSTHCFYRILRLHENAADLDSTLESEDTLPDSCRMRKQAFQAVOKELQIIVGPOFSGA 120
DB 83 DSTHCFYRILRLHENAADLDSTLESEDTLPDSCRMRKQAFQAVOKELQIIVGPOFSGA 142
QY 121 PAMWEGSLDVAORGRPEAOPFAHLITINAASIPSGSKRYLSSWYHDSGMKAKISNMTLSN 180
DB 143 PAMWEGSLDVAORGRPEAOPFAHLITINAASIPSGSKRYLSSWYHDSGMKAKISNMTLSN 202
QY 181 GKLRYNODGFYLLYANICFRHNETSGSVPTDYQLMLVYVVKTSIKIPSSHNLKMGSTKN 240
DB 203 GKLRYNODGFYLLYANICFRHNETSGSVPTDYQLMLVYVVKTSIKIPSSHNLKMGSTKN 262
QY 241 WSGNSEHFYYSINVGFFKLRAAGEISIOVSNPSLLDPDQDATYFGAFKVDID 294
DB 263 WSGNSEHFYYSINVGFFKLRAAGEISIOVSNPSLLDPDQDATYFGAFKVDID 316

RESULT 11

US-09-052-521C-2
Sequence 2, Application US/09052521C
Patent No. 6316408
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
TITLE OF INVENTION: Osteoprotegerin Binding Proteins and Receptors
FILE REFERENCE: A-45187
CURRENT APPLICATION NUMBER: US/09/052,521C
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 08/880,855
PRIOR FILING DATE: 1997-06-23
PRIOR APPLICATION NUMBER: 08/842,842
NUMBER OF SEQ ID NOS: 40
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 2
LENGTH: 316
TYPE: PRT
ORGANISM: Mouse
US-09-052-521C-2

Query Match: 99.6%; Score 1554; DB 4; Length 316;
Best Local Similarity 99.7%; Pred. No. 3e-152;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GVPHEGPLHAPASAPAPPAASRSMLLGLIGLOVVCSTALFLYFAQNDPNRISE 60
DB 23 GVPHEGPLHAPASAPAPPAASRSMLLGLIGLOVVCSTALFLYFAQNDPNRISE 82
QY 61 DSTHCFYRILRLHENAADLDSTLESEDTLPDSCRMRKQAFQAVOKELQIIVGPOFSGA 120
DB 83 DSTHCFYRILRLHENAADLDSTLESEDTLPDSCRMRKQAFQAVOKELQIIVGPOFSGA 142
QY 121 PAMWEGSLDVAORGRPEAOPFAHLITINAASIPSGSKRYLSSWYHDSGMKAKISNMTLSN 180
DB 143 PAMWEGSLDVAORGRPEAOPFAHLITINAASIPSGSKRYLSSWYHDSGMKAKISNMTLSN 202
QY 181 GKLRYNODGFYLLYANICFRHNETSGSVPTDYQLMLVYVVKTSIKIPSSHNLKMGSTKN 240
DB 203 GKLRYNODGFYLLYANICFRHNETSGSVPTDYQLMLVYVVKTSIKIPSSHNLKMGSTKN 262
QY 241 WSGNSEHFYYSINVGFFKLRAAGEISIOVSNPSLLDPDQDATYFGAFKVDID 294
DB 263 WSGNSEHFYYSINVGFFKLRAAGEISIOVSNPSLLDPDQDATYFGAFKVDID 316

RESULT 12

RESULT 14
US-08-995-659-13
Sequence 13, Application US/08995659
Patent No. 6242213
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/995,659
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
CLASSIFICATION:
APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-995-659-13

Query Match 85.0%; Score 1326.5; DB 3; Length 317;
Best Local Similarity 84.5%; Pred. No. 9,4e-129;
Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGPIHPAPSAAPAPPAASRSMFLALLGLGIGQVCSIALFLYFRANDPPIRISE 60
DB 23 GAPHEGPIHP-APPAPAPHPAPPAASRSMFLALLGLGIGQVCSIALFLYFRANDPPIRISE 81
QY 61 DSTHCFYRIILRLHNAADLSDTLESEDT--LPDSCRMKAFOGAVOKELQHTVGSQHIR 141
DB 82 DGTCHICIRILRLHNAADLSDTLESEDT--LPDSCRMKAFOGAVOKELQHTVGSQHIR 141
QY 119 GAPAMMGSLDVAORCKPEAOPFAHLITNAASIPSGSHKVTLSVYHDSGNAKISNMFL 178
DB 142 AEKAMVDGSLDLAKRSKLEAOPFAHLITNAADIPSGSHKVTLSVYHDSGNAKISNMFL 201
QY 179 SNGKLIVNODGFYLLANICFRHETSGSVPTDYLOLMYVYVTSIKIPSSHNLKMGST 238
DB 202 SNGKLIVNODGFYLLANICFRHETSGSVPTDYLOLMYVYVTSIKIPSSHNLKMGST 261

QY 239 KWSGSEHFHYISINVGFFKLRAGEISIOVNSPLDDPDQATYGAQKVDID 294
DB 262 KWSGSEHFHYISINVGFFKLRAGEISIOVNSPLDDPDQATYGAQKVDID 317

RESULT 15
US-09-215-649A-13
Sequence 13, Application US/09215649A
Patent No. 6271349
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/215,649A
FILING DATE: 17-Dec-1998
CLASSIFICATION: <Unknown>
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/996,139
FILING DATE: <Unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-215-649A-13

Query Match 85.0%; Score 1326.5; DB 3; Length 317;
Best Local Similarity 84.5%; Pred. No. 9,4e-129;
Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGPIHPAPSAAPAPPAASRSMFLALLGLGIGQVCSIALFLYFRANDPPIRISE 60
DB 23 GAPHEGPIHP-APPAPAPHPAPPAASRSMFLALLGLGIGQVCSIALFLYFRANDPPIRISE 81
QY 61 DSTHCFYRIILRLHNAADLSDTLESEDT--LPDSCRMKAFOGAVOKELQHTVGSQHIR 141
DB 82 DGTCHICIRILRLHNAADLSDTLESEDT--LPDSCRMKAFOGAVOKELQHTVGSQHIR 141
QY 119 GAPAMMGSLDVAORCKPEAOPFAHLITNAASIPSGSHKVTLSVYHDSGNAKISNMFL 178
DB 142 AEKAMVDGSLDLAKRSKLEAOPFAHLITNAADIPSGSHKVTLSVYHDSGNAKISNMFL 201
QY 179 SNGKLIVNODGFYLLANICFRHETSGSVPTDYLOLMYVYVTSIKIPSSHNLKMGST 238
DB 202 SNGKLIVNODGFYLLANICFRHETSGSVPTDYLOLMYVYVTSIKIPSSHNLKMGST 261

Thu Sep 11 16:16:48 2003

us-09-688-459-11.ra1

Page 9

2Y 239 KNMSGSEFHFYSINVGFEKLRAGEEISIOVSNPSLDPDQDATYFGAFKVDID 294
DB 262 KYMSGSEFHFYSINVGFEKLRSGEISIEVSNPSLDPDQDATYFGAFKVRDID 317

Search completed: September 11, 2003, 08:53:02
Job time : 23 secs

Thu Sep 11 16:16:49 2003

us-09-688-459-11.rapb

Page 1

GenCore version 5.1.6
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CM protein - protein search, using sw model

Run on: September 11, 2003, 08:30:21 : Search time 195 Seconds
(without alignments)
219.991 Million cell updates/sec

Title: US-09-688-459-11

Sequence score: 1561
1 GVPHEGRLHAPSAPAPAPPP.....LDDPDQATYFGAFKVIDID 294

Scoring table: BLOSUM62
Gapco 10.0 , Gapext 0.5

Searched: 541936 seqs, 145912426 residues

Total number of hits satisfying chosen parameters: 541936

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries:

Database:

Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09D_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1561	100.0	294	9	US-09-871-856-11
2	1561	100.0	294	10	US-09-877-650-11
3	1554	99.6	316	11	US-09-879-569-7
4	1554	99.6	316	12	US-10-326-052-2
5	1554	99.6	316	14	US-10-017-910-4
6	1554	99.6	316	15	US-10-105-057-2
7	1554	99.6	316	15	US-10-272-411-19
8	1554	99.6	316	15	US-10-272-411-19
9	1326.5	85.0	317	9	US-09-813-329-7
10	1326.5	85.0	317	9	US-09-877-650-13
11	1326.5	85.0	317	15	US-10-218-547-22
12	1326.5	85.0	317	15	US-10-017-910-2
13	1108	71.0	245	14	US-09-779-050A-14
14	855	54.8	160	10	US-09-791-153A-76
15	830	53.2	170	11	US-09-871-856-11

16	768	49.2	160	10	US-09-779-050A-15	Sequence 15, Appl
17	740	47.4	151	12	US-10-338-083-10	Sequence 10, Appl
18	496	31.8	109	9	US-09-911-777-8	Sequence 8, Appl
19	496	31.8	109	15	US-10-045-574A-8	Sequence 8, Appl
20	422	27.0	77	16	US-10-286-696-10	Sequence 10, Appl
21	363	23.3	77	16	US-10-286-696-11	Sequence 11, Appl
22	258.5	16.6	279	14	US-10-066-209-3	Sequence 3, Appl
23	258.5	16.6	281	8	US-08-916-625B-6	Sequence 6, Appl
24	258.5	16.6	281	9	US-08-971-117A-8	Sequence 8, Appl
25	258.5	16.6	281	9	US-08-813-329-17	Sequence 17, Appl
26	258.5	16.6	281	9	US-08-193-663-8	Sequence 8, Appl
27	258.5	16.6	281	10	US-09-934-465-1	Sequence 10, Appl
28	258.5	16.6	281	11	US-09-919-039-118	Sequence 11, Appl
29	258.5	16.6	281	13	US-10-039-785-66	Sequence 66, Appl
30	258.5	16.6	281	14	US-10-011-125-4	Sequence 4, Appl
31	258.5	16.6	281	14	US-10-001-054-54	Sequence 54, Appl
32	258.5	16.6	281	15	US-10-093-766-54	Sequence 54, Appl
33	258.5	16.6	281	15	US-10-174-65A-11	Sequence 11, Appl
34	258.5	16.6	281	15	US-10-151-882-41	Sequence 41, Appl
35	258.5	16.6	281	15	US-10-218-547-20	Sequence 20, Appl
36	251	16.1	291	14	US-10-017-910-6	Sequence 6, Appl
37	236	15.1	296	15	US-10-185-425-5	Sequence 5, Appl
38	230.5	14.9	246	9	US-09-855-544A-13	Sequence 13, Appl
39	230.5	14.8	168	10	US-09-900-530A-10	Sequence 10, Appl
40	229.5	14.7	166	10	US-09-900-530A-10	Sequence 10, Appl
41	228.5	14.6	161	12	US-10-216-074-7	Sequence 7, Appl
42	228.5	14.6	161	12	US-10-338-083-11	Sequence 11, Appl
43	225	14.4	172	10	US-09-779-050A-17	Sequence 17, Appl
44	220.5	14.1	164	14	US-10-116-378-29	Sequence 29, Appl
45	211	13.5	39	11	US-09-791-153A-78	Sequence 78, Appl

ALIGNMENTS

RESULT 1
US-09-871-856-11
Sequence 11, Application US/09871856
Patent No. US20020081720A1

GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galiberti, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/871,856
FILING DATE: 31-May-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/996,139
FILING DATE: <Unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:

NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A

SEQUENCE CHARACTERISTICS
LENGTH: 316 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein


```

;      MOLECULE TYPE: protein
;      SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-017-910-4

```

Query Match	99.68;	Score 1554;	DB 14;	Length 316;
Best Local Similarity	99.78;	Pred. No. 5.2e-145;		
Matches 293; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0

QY 1 GVHSEPLPAASAPAPAPPAASSMFLALGLGIVCSIALFLYFRAQMDPNRISE 60
 Db 23 GVHSEPLPAASAPAPAPPAASSMFLALGLGIVCSIALFLYFRAQMDPNRISE 82
 QY 61 DSHCYRYLLRLHENAIDLDDSTLSEEDTLPDSCRRMKQAFQAYOKELQHYVGFQRSGA 120
 Db 83 DSHCYRYLLRLHENAIDLDDSTLSEEDTLPDSCRRMKQAFQAYOKELQHYVGFQRSGA 142
 QY 121 PAMEGSMFLDVAQRKPEAPRAHLTTTAASTPQSSHHVTLSMTHDRGAKKISNMFLSN 180
 Db 143 PAMEGSMFLDVAQRKPEAPRAHLTTTAASTPQSSHHVTLSMTHDRGAKKISNMFLSN 202
 QY 181 GLRLNODGFFYLLYANICFRHHETSGSVPTDYLDLMMVYKTSIKIPSSHNLMKGSGSTKN 240
 Db 203 GLRLNODGFFYLLYANICFRHHETSGSVPTDYLDLMMVYKTSIKIPSSHNLMKGSGSTKN 262
 QY 241 WSGNSEPFHETYSINVGPFKLRAGEEISTQVSNPSILPDDOATYEGAFKVOIDD 294
 Db 263 WSGNSEPFHETYSINVGPFKLRAGEEISTQVSNPSILPDDOATYEGAFKVOIDD 316

```

RESULT 6
US-10-105-057-2
; Sequence 2, Application US/10105057
; Publication No. US20030013651A1
; GENERAL INFORMATION:
; APPLICANT: Barnes-Jewish Hospital, d/b/a The Jewish Hospital of St. Louis
; TITLE OF INVENTION: STIMULATION OF OSTEOGENESIS USING RANK LIGAND FUSION PROTEINS
; FILE REFERENCE: BJC# 10054.1
; CURRENT APPLICATION NUMBER: US/10/105.057
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US 60/277,855
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 316
; TYPE: PRP
; ORGANISM: Mus musculus
US-10-105-057-2

```

Query Match	99.68%	Score 1554	DB 15	Length 316
Best Local Similarity	99.78%	Pred. No. 5.2e-145		
Matches 299	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	1	CYPBGPPLPAPASAPAPAPPPAASRSMFLALGILGLOVVCSTALFLYPAQNDPRIS	60	
Db	23	GVPHBEPPLPAPASAPAPAPPPAASRSMFLALGILGLOVVCSTALFLYPAQNDPRIS	82	
QY	61	DSTHCFYRLRLRHNADLQDSTLESEDTLPDSCBKMQAQGVAVQKEIDHYGPQFSQA	120	
Db	83	DSTHCFYRLRLRHNAGLQDSTLESEDTLPDSCBKMQAQGVAVQKEIDHYGPQFSQA	142	
QY	121	PAMMGSMILDVQORCKPAPAPFAHLLTINAAISIPSGSHKVTLLSSWYHDROMANISMTLSN	180	
Db	143	PAMMGSMILDVQORCKPAPAPFAHLLTINAAISIPSGSHKVTLLSSWYHDROMANISMTLSN	202	
QY	181	GLRLVNDGFFYYLVANICFRHHETSGSVPDYQLQMLVYVVKTSIKIPSSHNLKMGSGTKN	240	
Db	203	GLRLVNDGFFYYLVANICFRHHETSGSVPDYQLQMLVYVVKTSIKIPSSHNLKMGSGTKN	262	
QY	241	WGSNGSEFFHYISINVGGFFKLAGEEISIOVSNPILDPQDDATYGAFAFYVDID	294	
Db	263	WGSNGSEFFHYISINVGGFFKLAGEEISIOVSNPILDPQDDATYGAFAFYVDID	316	

```

: RESULT 7
: US-10-272-411-19
: Sequence 19, Application US/10/272411
: Publication No. US20030100058A1
: GENERAL INFORMATION:
: APPLICANT: Barnes Jewish Hospital
: APPLICANT: Lam, Jonathan
: APPLICANT: Ross, F. Patrick
: TITLE OF INVENTION: RABBITBUB, STEVEN
: FILE REFERENCE: 60019650-0202
: CURRENT APPLICATION NUMBER: US/10/272,411
: PRIOR FILING DATE: 2002-10-15
: PRIOR APPLICATION NUMBER: 60/329,393
: NUMBER OF SEQ ID NOS: 52
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 19
: LENGTH: 316
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-10-272-411-19

```

Query Match	99.6%	Score 1554	DB 15	Length 316
Best Local Similarity	99.7%	Pred. No 5.2e-145		
Matches 293	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	1	GYPHGCPLHPAPSAAPAPPPAASRSMPFLLALGIGLQVVCSTALFLYRAQMDNRRISE	60	
Db	23	GYPHGPCPLHPAPSAAPAPPPAASRSMPFLLALGIGLQVVCSTALFLYRAQMDNRRISE	82	
QY	61	DSTHCFYRILRLHENADLQDSTLESEPTLPDSCRBMKQAGVQKRELOHIYGPORFSGA	120	
Db	83	DSTHCFYRILRLHENAGLQDSTLESEPTLPDSCRBMKQAGVQKRELOHIYGPORFSGA	142	
QY	121	PAMMGSMFLDVAQNGKPEAPQFAHLITNAASISGSGSKYTLSSWYHDRGMAKISMTLSN	180	
Db	143	PAMMGSMFLDVAQNGKPEAPQFAHLITNAASISGSGSKYTLSSWYHDRGMAKISMTLSN	202	
QY	181	GLRLRNQGGFYLLYANICFRHHETSGSVPTDYQLQMLVYVTKSIKIPSSHNLKMGSGTKN	240	
Db	203	GLRLRNQGGFYLLYANICFRHHETSGSVPTDYQLQMLVYVTKSIKIPSSHNLKMGSGTKN	262	
QY	241	MSGNSEFFIYSINVGGFFKLKAGEISISQVSNPSLDPPODATTGCAFYVDDID	294	
Db	263	MSGNSEFFIYSINVGGFFKLKAGEISISQVSNPSLDPPODATTGCAFYVDDID	316	

```

1  RESULT 8
2  US-10-272-328A-19
3  Sequence 19, Application US/10/722328A
4  Publication No. US20030109444A1
5  GENERAL INFORMATION:
6  APPLICANT: Barnes Jewish Hospital
7  APPLICANT: Lam, Jonathan
8  APPLICANT: Ross, F. Patrick
9  APPLICANT: Teitelbaum, Steven
10 TITLE OF INVENTION: RAKL MIMICS AND USES THEREOF
11 FILE REFERENCE: 60019620-0206
12 CURRENT APPLICATION NUMBER: US/10/272,328A
13 CURRENT FILING DATE: 2003-01-24
14 PRIOR APPLICATION NUMBER: 60/329,393
15 PRIOR FILING DATE: 2001-10-15
16 NUMBER OF SEQ ID NOS: 51
17 SOFTWARE: PatentIn version 3.1
18 SEQ ID NO 19
19 LENGTH: 316
20 TYPE: prt
21 ORGANISM: Homo sapiens
22 US-10-272-328A-19

```

Query Match 99.6%; Score 1554; DB 15; Length 316;

Sequence 13, Application US/09877650
Patent No. US20020169117A1
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Markovskiy, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/877,650
FILING DATE: 08-Jun-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/995,659
FILING DATE: 1997-12-22
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-877-650-13

Query Match 85.0%; Score 1326.5; DB 10; Length 317;
Best Local Similarity 84.5%; Pred. No. 1.5e-122;
Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGLHPAPSAAPAPPAASRSMTLLGLGLGVVCSIALFLYFRQMDPNRISE 60
DB 23 GAPHEGLH-APPAPADHPPAASRSMTLLGLGLGVVCSIALFLYFRQMDPNRISE 81
QY 61 DSTHCFRIILRLHNAADPDTLESQDTKLIPSCRIKAFQGAOKELOHIVGQPRFS 118
DB 82 DSTHCFRIILRLHNAADPDTLESQDTKLIPSCRIKAFQGAOKELOHIVGQPRFS 141
QY 119 GAPAMGSLDVAQORCKPEAPFAHLTINAAISIPSGSHKVTLSWYHDSGMKISNMTL 178
DB 142 AEKAMVDGSLDLAKRSKLEAPFAHLTINATDIPSSHKVSLSSWYHDSGMKISNMTF 201
QY 179 SNGELRNNOGFFYLLANICFRHHTSGSPVTDYDLMVYVTKTSIKIPSSHLMKGGST 238
DB 202 SNGELRNNOGFFYLLANICFRHHTSGSPVTDYDLMVYVTKTSIKIPSSHLMKGGST 261
QY 239 KMGSGNEFHYSINVGFFKLRSGETISIOVSNPSILDPDQATYFGAFKRVYDID 294
DB 262 KMGSGNEFHYSINVGFFKLRSGETISIEVSNPSILDPDQATYFGAFKRVYDID 317

RESULT 12

US-10-218-547-22
Sequence 22, Application US/10218547
Publication No. US20030100074A1
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Methods And Compositions For Treating Metabolic Bone Diseases
FILE REFERENCE: PF561
CURRENT APPLICATION NUMBER: US/10/218,547
PRIOR FILING DATE: 2002-08-15
PRIOR APPLICATION NUMBER: 60/312,542
PRIOR FILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: 60/330,761
NUMBER OF SEQ ID NOS: 57
SOFTWARE: PatentIn version 3.1
SEQ ID NO 22
LENGTH: 317
TYPE: PRT
ORGANISM: human
US-10-218-547-22

Query Match 85.0%; Score 1326.5; DB 15; Length 317;
Best Local Similarity 84.5%; Pred. No. 1.5e-122;
Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 1 GVPHEGLHPAPSAAPAPPAASRSMTLLGLGLGVVCSIALFLYFRQMDPNRISE 60
DB 23 GAPHEGLH-APPAPADHPPAASRSMTLLGLGLGVVCSIALFLYFRQMDPNRISE 81
QY 61 DSTHCFRIILRLHNAADPDTLESQDTKLIPSCRIKAFQGAOKELOHIVGQPRFS 118
DB 82 DSTHCFRIILRLHNAADPDTLESQDTKLIPSCRIKAFQGAOKELOHIVGQPRFS 141
QY 119 GAPAMGSLDVAQORCKPEAPFAHLTINAAISIPSGSHKVTLSWYHDSGMKISNMTL 178
DB 142 AEKAMVDGSLDLAKRSKLEAPFAHLTINATDIPSSHKVSLSSWYHDSGMKISNMTF 201
QY 179 SNGELRNNOGFFYLLANICFRHHTSGSPVTDYDLMVYVTKTSIKIPSSHLMKGGST 238
DB 202 SNGELRNNOGFFYLLANICFRHHTSGSPVTDYDLMVYVTKTSIKIPSSHLMKGGST 261
QY 239 KMGSGNEFHYSINVGFFKLRSGETISIOVSNPSILDPDQATYFGAFKRVYDID 294
DB 262 KMGSGNEFHYSINVGFFKLRSGETISIEVSNPSILDPDQATYFGAFKRVYDID 317

RESULT 13

US-10-017-910-2
Sequence 2, Application US/10017910
Publication No. US2002015970A1
GENERAL INFORMATION:
APPLICANT: Choi, Yongwon
Wong, Brian
Jostien, Regis
Steinman, Ralph
TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY
INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING
METHODS OF USE THEREOF
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauder & Jackson
STREET: 411 Hackensack Avenue, 4th floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/017.910
FILING DATE: 14-Dec-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/447.035
FILING DATE: 1999-11-22
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-200
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 245 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-017-910-2

Query Match 71.0%; Score 1108; DB 14; Length 245;
Best Local Similarity 84.5%; Pred. No. 3.9e-101;
Matches 207; Conservative 14; Mismatches 22; Indels 2; Gaps 1;

QY 52 QMDPNRISEDSTHCYRILRLHENAQDSTLESDT-LPDSGRKAKAFQGAQVQKELQ 109
DB 1 QMDPNRISEDSTHCYRILRLHENAQDSTLESDTLPDSGRKAKAFQGAQVQKELQ 60
QY 110 HVGPOKFSAPAMGSSMLDVAORKEAPFAHLTINAAISPSGSHKVTLSWYHNRG 169
DB 61 HVGPOKFSAPAMGSSMLDVAORKEAPFAHLTINAAISPSGSHKVTLSWYHNRG 120
QY 170 WAKISNMTLSNGKLRVNDGFYLLYANICFRHHTSGSVPTDYLQMLVYVTKSIRKIPSS 229
DB 121 WAKISNMTLSNGKLRVNDGFYLLYANICFRHHTSGSVPTDYLQMLVYVTKSIRKIPSS 180
QY 230 HNLKGGSTKNSGNSSEFHYTSINVGGEFKLRAGEISIOVSNPSLDPDQATYFGAFK 289
DB 181 HNLKGGSTKNSGNSSEFHYTSINVGGEFKLRAGEISIOVSNPSLDPDQATYFGAFK 240
QY 290 VQDID 294
DB 241 VRDID 245

RESULT 14
US-09-779-050A-14
Sequence 14, Application US/09779050A
Patent No. US20020160416A1
GENERAL INFORMATION:
APPLICANT: BOYLE, WILLIAM
APPLICANT: HSU, HAILING
TITLE OF INVENTION: RECEPTOR FROM TNF FAMILY
FILE REFERENCE: A-570B
CURRENT APPLICATION NUMBER: US/09/779,050A
CURRENT FILING DATE: 2001-02-12
PRIOR APPLICATION NUMBER: 60/181,800
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 14
LENGTH: 160
TYPE: PRT
ORGANISM: Mus musculus
US-09-779-050A-14

Query Match 54.8%; Score 855; DB 10; Length 160;
Best Local Similarity 100.0%; Pred. No. 2e-76;
Matches 160; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 GKPEAPFAHLTINAAISPSGSHKVTLSWYHNRGAKISNMTLSNGKLRVNDGFYLLY 194
DB 1 GKPEAPFAHLTINAAISPSGSHKVTLSWYHNRGAKISNMTLSNGKLRVNDGFYLLY 60
QY 195 ANICFRHHTSGSVPTDYLQMLVYVTKSIRKIPSSHNLKGGSTKNSGNSSEFHYTSIN 254
DB 61 ANICFRHHTSGSVPTDYLQMLVYVTKSIRKIPSSHNLKGGSTKNSGNSSEFHYTSIN 120
QY 255 GGEFKLRAGEISIOVSNPSLDPDQATYFGAFKVDID 294
DB 121 GGEFKLRAGEISIOVSNPSLDPDQATYFGAFKVDID 160

RESULT 15
US-09-791-153A-76
Sequence 76, Application US/09791153A
Publication No. US20030103978A1
GENERAL INFORMATION:
APPLICANT: Deshpande, Rajendra
APPLICANT: Hitz, Anna
APPLICANT: Boyle, William
APPLICANT: Sullivan, John
TITLE OF INVENTION: SELECTIVE BINDING AGENTS OF OSTEOPROTEGERIN BINDING PROTEIN
FILE REFERENCE: A-633A
CURRENT APPLICATION NUMBER: US/09/791,153A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/511,139
PRIOR FILING DATE: 2000-02-23
NUMBER OF SEQ ID NOS: 154
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 76
LENGTH: 170
TYPE: PRT
ORGANISM: Mus musculus
US-09-791-153A-76

Query Match 53.2%; Score 830; DB 11; Length 170;
Best Local Similarity 97.5%; Pred. No. 6.4e-74;
Matches 155; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 136 KPEAPFAHLTINAAISPSGSHKVTLSWYHNRGAKISNMTLSNGKLRVNDGFYLLY 195
DB 12 KPEAPFAHLTINAAISPSGSHKVTLSWYHNRGAKISNMTLSNGKLRVNDGFYLLY 71
QY 196 NICFRHHTSGSVPTDYLQMLVYVTKSIRKIPSSHNLKGGSTKNSGNSSEFHYTSIN 255
DB 72 NICFRHHTSGSVPTDYLQMLVYVTKSIRKIPSSHNLKGGSTKNSGNSSEFHYTSIN 131
QY 256 GGEFKLRAGEISIOVSNPSLDPDQATYFGAFKVDID 294
DB 132 GGEFKLRAGEISIOVSNPSLDPDQATYFGAFKVDID 170

Search completed: September 11, 2003, 09:00:16
Job time: 195 secs

RESULT 1:
US-08-989-362-1
Sequence 1, Application US/08989362
Patent No. 6242586

GENERAL INFORMATION:
APPLICANT: Gorman, Daniel M.
APPLICANT: Mattson, Jeanine D.
TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
TITLE OF INVENTION: Reagents
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: DNA Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/989,362
FILING DATE: 12-DEC-1997
CLASSIFICATION: 56

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/032,846
FILING DATE: 13-DEC-1996
ATTORNEY/AGENT INFORMATION:

NAME: Chang, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: DX0686
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1204

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2191 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

FEATURE:
NAME/KEY: CDS
LOCATION: 125..1072
US-08-989-362-1

Query Match 99.18; Score 1615.8; DB 3; Length 2191;
Best Local Similarity 99.88; Pred. No. 0;
Matches 1628; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

DB 1 CGGCGTCCACACAGAGGGTCCGCTGCACCCCGGCTTCTGACACCGGCTCCGGGCGCGC 60
DB 189 CCGGCGTCCACACAGAGGGTCCGCTGCACCCCGGCTTCTGACACCGGCTCCGGGCGCGC 248
DB 61 CACCGCGGCTCCCGCTGCATGTTCTGCGCCCTCTCTGGGCTGGGACTGGGCGCAGTGG 120
DB 249 CACCGCGGCTCCCGCTGCATGTTCTGCGCCCTCTCTGGGCTGGGACTGGGCGCAGTGG 308
DB 121 TCTGAGAGTGGCTGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 309 TCTGAGAGTGGCTGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 368
DB 181 AAGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 240
DB 369 AAGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 428
DB 241 ACTGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 300
DB 429 ACTGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 488
DB 301 TTCAGGAGGCGGTGAG 360
DB 489 TTCAGGAGGCGGTGAG 548
DB 361 CTCAGCTATGATGAGAGGCTCATGGTGTGATGTGGCCAGGAGGCAAGCCTGAGAGCC 420

Sequence
Alignment

DB 549 CTCACGCTATGATGAGAGGCTCATGGTGTGATGTGGCCAGGAGGCAAGCCTGAGAGCC 608
DB 421 AGCCATTGGACACCTCCACGACGACGACGACGACGACGACGACGACGACGACGACGAC 480
DB 609 AGCCATTGGACACCTCCACGACGACGACGACGACGACGACGACGACGACGACGACGAC 668
DB 481 CTCGTGCTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 540
DB 669 CTCGTGCTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 728
DB 541 ACAGAAAGTAAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTT 600
DB 729 ACAGAAAGTAAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTT 788
DB 601 GGCATCATGAAACATCGGGAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGG 660
DB 789 GGCATCATGAAACATCGGGAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGGTTAAGG 848
DB 661 TTAAGAACGACATCAAAATCCAAAGTCTCATTAAGTCAAGTCAAGTCAAGTCAAGTCA 720
DB 849 TTAAGAACGACATCAAAATCCAAAGTCTCATTAAGTCAAGTCAAGTCAAGTCAAGTCA 908
DB 721 ACTGTCGGGCAATTCGAATTCGATTTATTCATTAATTTGTTGGGATTTTCAAGC 780
DB 909 ACTGTCGGGCAATTCGAATTCGATTTATTCATTAATTTGTTGGGATTTTCAAGC 968
DB 781 TCCGAGCTGGTGAAGAAATTTAGCATTCAGTTCGATTCGATTCGATTCGATTCGATTC 840
DB 969 TCCGAGCTGGTGAAGAAATTTAGCATTCAGTTCGATTCGATTCGATTCGATTCGATTC 1028
DB 841 AAGATGACGACTGTTGGGCTTCAAGTTCAGTTCGATTCGATTCGATTCGATTCGATTC 900
DB 1029 AAGATGACGACTGTTGGGCTTCAAGTTCAGTTCGATTCGATTCGATTCGATTCGATTC 1088
DB 901 GAACATTAAGCATGATGATGCTGATGATGATGATGATGATGATGATGATGATGATGAT 960
DB 1089 GAACATTAAGCATGATGATGCTGATGATGATGATGATGATGATGATGATGATGATGAT 1148
DB 961 ACATGCTAAGACTACTAGAGACATGAGGCGCCAGGTTGATGAAGTCAAGCCCTCTCTC 1020
DB 1149 ACATGCTAAGACTACTAGAGACATGAGGCGCCAGGTTGATGAAGTCAAGCCCTCTCTC 1208
DB 1021 TTGAGCCTGACAGGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1080
DB 1209 TTGAGCCTGACAGGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1268
DB 1081 TACACAAAGGTTTACAAATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 1139
DB 1269 TACACAAAGGTTTACAAATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 1328
DB 1140 TATTCGATGCTTATGAAAGTAACTTACAGTGAAGTGAAGGAGGCTCAGTCTGCGG 1116
DB 1329 TATTCGATGCTTATGAAAGTAACTTACAGTGAAGTGAAGGAGGCTCAGTCTGCGG 1388
DB 1200 TCTAACCCCTGACATGTCGACATGAGAACTTGAATTAAGAGATGATGATGATGATG 1259
DB 1389 TCTAACCCCTGACATGTCGACATGAGAACTTGAATTAAGAGATGATGATGATGATG 1448
DB 1260 AAGAAATGATAGTGTGAAGGTTAAGTCTTTTGAATTTGTTAATTCGCTGGAGCTG 1319
DB 1449 AAGAAATGATAGTGTGAAGGTTAAGTCTTTTGAATTTGTTAATTCGCTGGAGCTG 1508
DB 1320 CAATAATGCTTTTCTTCTAATGAGAGAGAAATATATGATTTTATATATGCT 1379
DB 1509 CAATAATGCTTTTCTTCTAATGAGAGAGAAATATATGATTTTATATATGCT 1568
DB 1380 AAGATTAATTCAGGTGAATGTTTCTGTCGCAAGTTTGAATTAATTAATTAATTAAT 1439
DB 1569 AAGATTAATTCAGGTGAATGTTTCTGTCGCAAGTTTGAATTAATTAATTAATTAAT 1628
DB 1440 TAGATATTGATCAAAATTTTAAATATGTCACGTTGACATATTTAATGTTTAAAT 1499

MO9846751-A1
22-OCT-1998.

LS-APK-1998; 98MO-0507584.

30-MAR-1998; 98US-0052521.
16-APR-1997; 97US-0842842.
23-JUN-1997; 97US-0880855.

(AMGE-) AMGEN INC.

WPI; 1998-594578/50.
N-PSDB; V70284.

e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis

Claim 19; Fig 1; 47pp; English.

The present sequence is human osteoprotegerin (OPG) binding protein. Host cells transfected with vectors containing nucleic acid molecules encoding OPG binding protein are used to produce recombinant OPG binding protein. OPG binding protein is used in binding assays to determine osteoprotegerin (OPG) in biological samples; to screen for specific binding agents (particularly agonists and antagonists, including intracellular proteins); to raise Ab (useful in immunoassays for detection of OPG binding protein) and to identify compounds that modulate binding of OPG binding protein; and to identify compounds that activate OPG binding protein (OPAR). The nucleic acid molecule encoding OPG binding protein can be used to detect OPG binding protein-encoding sequences, e.g. screening for related sequences, also to produce transgenic animal models, while complementary sequences are used for antisense regulation of OPG binding protein expression. Modulators of OPG binding protein, particularly soluble forms of OPG binding protein or Ab, are used to treat or prevent bone diseases, e.g. osteoporosis, bone loss caused by arthritis or metastases, hypercalcaemia, Paget's disease, periodontal disease, osteoporosis, loosening of prostheses, optionally in combination with agents that promote bone growth.

Sequence 316 AA;

Query Match	99.68;	Score 1554;	DB 19;	Length 316;
Best Local Similarity	99.78;	Pred. NO. 3.1e-140;		
Matches 293;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;

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12 203 gkldvnoodgylynaicrthnetsgsvpcdldlmvvyvtsitkpsnhlmkgsgstn 262

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RESULT 4

W83017 standard; Protein; 316 AA.

AC
XX

DT 10-FEB-1999 (first entry)

DE osteoclastogenesis inhibitory factor (OCIF)-binding molecule (OBM).
XX

XX osteoclast; bone absorption factor; calcium metabolism.

Unidentified.

W09846644-AL.
XX
XX

PD 22-OCT-1998.
yy

PE 15-APR-1998; 98MO-JP01728.
XX

PR	15-APR-1997	97JP-0097808.
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PR 12-AUG-1997; 97JP-0217897.

44 AUG 1971; 3/0F-0224803.
XX

(SNOW) SNOW BRAND MILK PROD CO LTD.
PA
XX

22 SUGO M., HIGASHINO K., KIHOSAKI M., KODAYASHI E., MORINAGA T;
PI Nakagawa N., Shima N. Takahashi K. TOMOYASU A. Tsuda E.

Washida N, Yamaguchi K, Yano K, Yasuda H;
XX

DR WPI; 1998-594563/50.
DR N-PSDB; V69886.

PT Protein binding to

calcium metabolism

PS Claim 8; Pages 106-108; 151pp; Japanese.
XX.

cc The present sequence represents an osteoclastogenesis inhibitory factor
cc (OCIF)-binding molecule (OBM). The protein is secreted and associated with

absorption factors such as calcitonin or parathyroid hormone (PTH) separation and maturation of osteoclasts in the presence of bone

absorption factor by separation and solubilisation of membrane proteins

form and a solubilised form (SOBM) which is a shorter chain. OBM may need for some applications.

activity, and screening for receptors to OBM which mediate its function. These substances can then be used in the treatment of OBM.

CCC function and calcium metabolism. The antibodies can be used for assays of the protein, for investigative and diagnostic purposes and as

components of drugs.

5Q Sequence 316 AA;

Query Match	99.68;	Score 1554;	DB 19;	Length 316
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Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

23 gvvhegplhpapsapapappaaasrsmflalllglgvgvcstallflytrdgmpraise 82

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OK nucleic - nucleic search, using sw model

Run on: September 10, 2003, 21:20:54 ; Search time 108 Seconds

(without alignments)
6661.616 Million cell updates/sec

Title: US-09-688-459-10

Perfect score: 1630
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Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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6: /cgn2-6/ptodata/2/lna/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
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2	1630	100.0	1630 3 US-08-996-139-10	Sequence 10, Appl
3	1630	100.0	1630 3 US-08-996-139-10	Sequence 10, Appl
4	1630	100.0	1630 3 US-08-996-139-10	Sequence 10, Appl
5	1630	100.0	1630 4 US-09-577-780-10	Sequence 10, Appl
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7	1630	100.0	1630 4 US-09-577-780-10	Sequence 10, Appl
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9	1630	100.0	1630 4 US-09-577-780-10	Sequence 10, Appl
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37	58.4	3.6	1769	4	US-09-502-250-1	Sequence 1, Appl
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42	58.4	3.6	1366	5	PCT-US96-10895-5	Sequence 5, Appl
43	58.4	3.6	5332	4	US-09-801-861-3	Sequence 3, Appl
44	58.4	3.6	5332	4	US-08-751-359-21	Sequence 21, Appl
45	58.4	3.6	5526	4	US-08-907-146-21	Sequence 21, Appl

ALIGNMENTS

RESULT 1
US-08-996-139-10
Sequence 10, Application US/08996139
Patent No. 6017729
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Gallibert, Laurent
APPLICANT: Markovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Apple Power Macintosh
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,139
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1630 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

Thu Sep 11 16:16:44 2003

us-09-688-459-10.rni

Page 2

ANTI-SENSE: NO
ORIGINAL SOURCE: Mus musculus
IMMEDIATE SOURCE: LIBRARY: RANKL
FEATURE: NAME/KEY: CDS
LOCATION: 3..884
US-08-995-119-10

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Best Local Similarity 100.08; Prid. No. 0;
Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-08-995-659-10
Sequence 10, Application US/08995659
Patent No. 6242213
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Marakovsky, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESS: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/995,659
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1630 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Mus musculus
IMMEDIATE SOURCE:
LIBRARY:
CLONE: RANKL
FEATURE:
NAME/KEY: CDS
LOCATION: 3..884
US-08-995-659-10

Query Match 100.0%; Score 1630; DB 3; Length 1630;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1621 GAGCTTCTAG 1630

RESULT 4
US-09-577-780-10
Sequence 10, Application US/09577780
Patent No. 6419929

GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA

ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Apple Power Macintosh
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/577,780
FILING DATE: 24-May-2000

US-09-577-780-10
Sequence 10, Application US/09577780
Patent No. 6419929
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Apple Power Macintosh
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/577,780
FILING DATE: 24-May-2000

CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/995,659
FILING DATE: <Unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1630 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE: ORGANISM: Mus musculus
IMMEDIATE SOURCE: LIBRARY: <unknown>
CLONE: RANKL
FEATURE:
NAME/KEY: CDS
LOCATION: 3..884
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-577-780-10
Query Match
Best Local Similarity 100.0%; Score 1630; DB 4; Length 1630;
Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 CCGGCGTCCACACAGAGGTCGCGTGCACCCGCGCTTGTGACGCGGCTCCGGCGCGC 60
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Db 61 CACCGCGCGCTCCCGCTCCATGTTCTGCGCCCTCTGCGGCTGGAGCTGGCCAGGTG 120
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Db 121 TCTGACAGATCGCTGTTCTGTTCTGTTGACGCGAGATGATCTTAACAGATATCAG 180
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DB 841 AAGATGCGACGATCTTTGGGCTTTCAAAGTTCCAGACATAGACTGACATTTGCTG 900
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DB 1261 AAGAAATGATAGTGTGAAGGCTTAAGTCTTTGAAATTTGTTACATTCGCTGGACCTGC 1320
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QY 1381 AAGTATATTTAGGCTGTAATGTTTCTGCAAGGTTTGTAAATATATTTGCTAT 1440
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DB 1501 TACAGATGTTTAAAGGCTGCACTTGTATATCCCTGAAAGGCTGATGCTAAGGGG 1560
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QY 1621 GAGCTCTTACAG 1630
DB 1621 GAGCTCTTACAG 1630

RESULT 5

US-09-577-800-10
Sequence 10, Application US/09577800

Patent No. 6479635
GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent

APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street

CITY: Seattle
STATE: WA

COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5

SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/577,800
FILING DATE: 24-MAY-2000

CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/996,139
FILING DATE: 22 DECEMBER 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US96 60/064,671

FILING DATE: 14 OCTOBER 1997
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US96 08/813,509
FILING DATE: 07 MARCH 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US96 08/772,330

FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206)233-0644
TELEFAX: (206)233-0644

INFORMATION FOR SRO ID NO: 10:
SEQUENCE CHARACTERISTICS:

LENGTH: 1630 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: CDNA
HYPOTHEICAL: NO

ANTI-SENSE: NO
ORIGINAL SOURCE:

ORGANISM: Mus musculus
IMMEDIATE SOURCE:

LIBRARY:
CLONE: RANKL

FEATURE:
NAME/KEY: CDS

LOCATION: 3..884
US-09-577-800-10

Query Match 100.0%; Score 1630; DB 4; Length 1630;
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 CCGGGTCCACACAGGGTCCGCTGCACCCCGGCTTCTGCACGGCTCCGGCGCC 60
 Db 1 CCGGGTCCACACAGGGTCCGCTGCACCCCGGCTTCTGCACGGCTCCGGCGCC 60
 61 CACCGCGCGCTCCCGCTCCATTTTCCCTGCGGCTCTGCGGCTGGAGCTGGCGGCTG 120
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RESULT 6
 US-09-466-496-10
 Sequence 10, Application US/09466496
 Patent No. 6528482
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibert, Laurent
 Marshkovsky, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/466,496
 FILING DATE: 17-Dec-1999
 CLASSIFICATION: <unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/996,139
 FILING DATE: 22 DECEMBER 1997
 APPLICATION NUMBER: USSN 60/064,671
 FILING DATE: 14 OCTOBER 1997
 APPLICATION NUMBER: USSN 08/813,509

FILED DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1630 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Mus musculus
IMMEDIATE SOURCE:
LIBRARY: <Unknown>
CLONE: RANKL
FEATURE:
NAME/KEY: CDS
LOCATION: 3..884
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-466-496-10
Query Match 100.0%; Score 1630; DB 4; Length 1630;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 CCGCGGTCCACAGAGGTCCTGCTGACACCCGCGCTTCTGACACGGCTCGGGCGGC 60
1 CCGGGGTCCACAGAGGTCCTGCTGACACCCGCGCTTCTGACACGGCTCGGGCGGC 60
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RESULT 7
 US-09-871-856-10
 Sequence 10. Application US/09871856
 Patent No. 6537763
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibert, Laurent
 Maraskovsky, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
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 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/871,856
 FILING DATE: 31-May-2001
 CLASSIFICATION: <unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/996,139
 FILING DATE: <unknown>
 APPLICATION NUMBER: USSN 08/813,509
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: USSN 08/772,330
 FILING DATE: 23 DECEMBER 1996
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 NAME: Perkins, Patricia Anne
 REGISTRATION/DOCKET NUMBER: 34,693
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Mus musculus
 IMMEDIATE SOURCE:
 LIBRARY: <Unknown>
 CLONE: RANKL
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..884
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 US-09-871-856-10
 Query Match 100.0% Score 1630; DB 4; Length 1630;
 Best Local Similarity 100.0%; P-Id. No. 0;
 Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CGGAGGTCACACAGAGGTCGCGCTGACACCGGCGCTTGTGACACGGGCTCCGGCGCGC 60
 DB 1 CGGAGGTCACACAGAGGTCGCGCTGACACCGGCGCTTGTGACACGGGCTCCGGCGCGC 60
 QY 51 CACCGCGCGCTCCGGCTGACATGTTCTGCGGCTCTGCGGCTGGAGCTGGAGCGAGGTG 120
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QY 121 TCTGACAGCTGCTCTGTTCTCTTACTTTGACGCGAGATGATCTTACAGAAATACAG 180
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 QY 181 AAGACAGCACTCACTGCTTTATAGAACTGAGATCTCATGAAAGCAGATTTGACAG 240
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 QY 241 ACTGCACTCTGGAGAGTGAAGACACACTACTGACTCTGTCAGAGAGATGAACAGCT 300
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 QY 361 CTCACACTATGATGAAGGCTCATGTTGATGTGGCGAGCGAGCAAGGCTGAGGCC 420
 DB 361 CTCACACTATGATGAAGGCTCATGTTGATGTGGCGAGCGAGCAAGGCTGAGGCC 420
 QY 421 AGCATTTGCAACCTGCAACATCATGCTGCGCAGCATCCATCGGGTCCCATAAAGTCA 480
 DB 421 AGCATTTGCAACCTGCAACATCATGCTGCGCAGCATCCATCGGGTCCCATAAAGTCA 480
 QY 481 CTCGTGCTCTTGTGTACACAGATCGAGGCTGGGCGCAAGATGCTTAACATGACCTTAAGCA 540
 DB 481 CTCGTGCTCTTGTGTACACAGATCGAGGCTGGGCGCAAGATGCTTAACATGACCTTAAGCA 540
 QY 541 ACGGAAACTAAGGTTTACCAAGATGCTTATACCTGTAGCCCAATTTGCTTTC 600
 DB 541 ACGGAAACTAAGGTTTACCAAGATGCTTATACCTGTAGCCCAATTTGCTTTC 600
 QY 601 GGCATCATGAACATCGGGAAGCGTACCTACAGATCTCTTACCTATATGCTATGTCG 660
 DB 601 GGCATCATGAACATCGGGAAGCGTACCTACAGATCTCTTACCTATATGCTATGTCG 660
 QY 661 TTAACACAGCATGAAATCCCAAGTTCTCATTAACATGAAAGGAGGAGCAGCAAAA 720
 DB 661 TTAACACAGCATGAAATCCCAAGTTCTCATTAACATGAAAGGAGGAGCAGCAAAA 720
 QY 721 ACTGCTGGGCAATCTGTAATTCACATTTATTCATTAATTTGGGGATTTTCAAGC 780
 DB 721 ACTGCTGGGCAATCTGTAATTCACATTTATTCATTAATTTGGGGATTTTCAAGC 780
 QY 781 TCCGAGCTGTGAAGAAATAGCATTCAGTGTCCAAACCTTCCCTGCTGATCCGGAATC 840
 DB 781 TCCGAGCTGTGAAGAAATAGCATTCAGTGTCCAAACCTTCCCTGCTGATCCGGAATC 840
 QY 841 AAGATCGAGTACTTTGGGGCTTCAAAATTTAGAGCATAGCTAGACTATTTGCTG 900
 DB 841 AAGATCGAGTACTTTGGGGCTTCAAAATTTAGAGCATAGCTAGACTATTTGCTG 900
 QY 901 GAACATTAGCATGATGCTCTAGATTTGGAACCTTTAAATAAATGATGATGCTAT 960
 DB 901 GAACATTAGCATGATGCTCTAGATTTGGAACCTTTAAATAAATGATGATGCTAT 960
 QY 961 ACATGTGTAGATCTTAAAGAGACATGAGCCAGGCTGTATGAACCTACAGCCCTCTC 1020
 DB 961 ACATGTGTAGATCTTAAAGAGACATGAGCCAGGCTGTATGAACCTACAGCCCTCTC 1020
 QY 1021 TTGAGCTGTACAGGTTGTATATGTAAGTCAATGATGATGATTTAGATTCATGATAT 1080
 DB 1021 TTGAGCTGTACAGGTTGTATATGTAAGTCAATGATGATGATTTAGATTCATGATAT 1080
 QY 1081 TACACAGGTTTCAATTTTGTATGATTTCTAGATTTGAACATGAGAGAGT 1140
 DB 1081 TACACAGGTTTCAATTTTGTATGATTTCTAGATTTGAACATGAGAGAGT 1140
 QY 1141 ATTGCGATGCTTATGAAATCTTACAGGAGCTATGGAAGGGGTCACATCTCTGGGT 1200
 DB 1141 ATTGCGATGCTTATGAAATCTTACAGGAGCTATGGAAGGGGTCACATCTCTGGGT 1200
 QY 1201 CTAAACCCCTGGAATGTGCTGACATGAAACCTTGAATTTAGAGATGCTATGCA 1260

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Db 1201 CTACCCCTGGACAGTGCCTGAGAACCTGAAATTAAGAGATGCGCATGTCACA 1260
QY 1261 AAGAAATGAGTGTGAGGGGTAGTCTTTGAAATGTTACATTCGCGTGGACCTGC 1320
Db 1261 AAGAAATGAGTGTGAGGGGTAGTCTTTGAAATGTTACATTCGCGTGGACCTGC 1320
QY 1321 AAATAGTCTTTTCTTTTAAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
Db 1321 AAATAGTCTTTTCTTTTAAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
QY 1381 AAGTATATTTTCAGGTGTAATGTTCTGTCGCAAAAGTTTGTAAATATATTTGCTAT 1440
Db 1381 AAGTATATTTTCAGGTGTAATGTTCTGTCGCAAAAGTTTGTAAATATATTTGCTAT 1440
QY 1441 AGTATTTGATTCACAAATATTTTAAATATGTCACCTGTCACATATTTATGTTAAATG 1500
Db 1441 AGTATTTGATTCACAAATATTTTAAATATGTCACCTGTCACATATTTATGTTAAATG 1500
QY 1501 TACAGATGATTTTAACTGGTGGACCTGTAATTCCTGTAAGTACTGTAAGAGGG 1560
Db 1501 TACAGATGATTTTAACTGGTGGACCTGTAATTCCTGTAAGTACTGTAAGAGGG 1560
QY 1561 GCACAAATACCTGTTCTGTCGACACATGATTTATTTCTTTTAACTTAATAA 1620
Db 1561 GCACAAATACCTGTTCTGTCGACACATGATTTATTTCTTTTAACTTAATAA 1620
QY 1621 GAGTCTTCAG 1630
Db 1621 GAGTCTTCAG 1630
QY 1630 GAGTCTTCAG 1630
Db 1630 GAGTCTTCAG 1630

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RESULT 8

US-09-871-291-10
Sequence 10, Application US/09871291
Patent No. 6562948

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:

MEDIA TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/871,291
FILING DATE: 30-May-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/996,139
FILING DATE: <Unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:

LENGTH: 1630 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Mus musculus
IMMEDIATE SOURCE:
LIBRARY: <Unknown>
CLONE: RANML

FEATURE:

NAME/KEY: CDS
LOCATION: 3..884
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-871-291-10

Query Match

Best Local Similarity 100.0%; Score 1630; DB 4; Length 1630;
Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CCGGCGTCCACAGAGAGGTCCGCTGACACCCGCGCTTGTGACCGGCTCGGCGCCG 60
Db 1 CCGGCGTCCACAGAGAGGTCCGCTGACACCCGCGCTTGTGACCGGCTCGGCGCCG 60
QY 61 CACCCGCGCGCTCCCGCTCCATGTTCTGCGCCCTGCGGGCTGGAGTGGCCAGGTG 120
Db 61 CACCCGCGCGCTCCCGCTCCATGTTCTGCGCCCTGCGGGCTGGAGTGGCCAGGTG 120
QY 121 TCTGACACATGCTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTG 180
Db 121 TCTGACACATGCTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTG 180
QY 181 AAGACACATCTACCTGTTTATAGAACTCTGAGACTCCATGAAAACGAGATTGCAAG 240
Db 181 AAGACACATCTACCTGTTTATAGAACTCTGAGACTCCATGAAAACGAGATTGCAAG 240
QY 241 ACTGACTCTGAGAGTGAAGACACACTACCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
Db 241 ACTGACTCTGAGAGTGAAGACACACTACCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 TTCAGGGGGCGGTGCAAGAGAACTGCAACATTTGAGGGCCACAGGCTTCTAGAG 360
Db 301 TTCAGGGGGCGGTGCAAGAGAACTGCAACATTTGAGGGCCACAGGCTTCTAGAG 360
QY 361 CTCACCTATGATGGAAGCTCATGTTGATGTGTGATGTGATGTGATGTGATGTGATG 420
Db 361 CTCACCTATGATGGAAGCTCATGTTGATGTGTGATGTGATGTGATGTGATGTGATG 420
QY 421 AGCCATTTGCACACCTCACATCAATGCTGCGAGCATCCATCGGGTCCCATTAAGTCA 480
Db 421 AGCCATTTGCACACCTCACATCAATGCTGCGAGCATCCATCGGGTCCCATTAAGTCA 480
QY 481 CTTCTGCTCTTGGTGAACACAGATGCAAGCTGCGCCAGAGATCTTAACATGAAATGCA 540
Db 481 CTTCTGCTCTTGGTGAACACAGATGCAAGCTGCGCCAGAGATCTTAACATGAAATGCA 540
QY 541 ACGGAAAATAGAGGTAAACCAAGATGCTCTTATTAAGCTGTAGCCCAATTTGCTTC 600
Db 541 ACGGAAAATAGAGGTAAACCAAGATGCTCTTATTAAGCTGTAGCCCAATTTGCTTC 600
QY 601 GGCATCATGAAGAAATCGGGAAGCTTACATGAGCTATCTTCAAGCTGATGTATGTG 660
Db 601 GGCATCATGAAGAAATCGGGAAGCTTACATGAGCTATCTTCAAGCTGATGTATGTG 660
QY 661 TTTAAACAGCATCAAAATCCCAAGTCTCATTAACGATGAAGGAAGGAGACACAAAA 720
Db 661 TTTAAACAGCATCAAAATCCCAAGTCTCATTAACGATGAAGGAAGGAGACACAAAA 720
QY 721 ACTGGTGGCAATTCGAAATTCACATTTATTCATAAATGTTGGGATTTTTCACG 780
Db 721 ACTGGTGGCAATTCGAAATTCACATTTATTCATAAATGTTGGGATTTTTCACG 780

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Query	Match	Best Local Similarity	Score	DB	Length
US-09-052-521C-1					
Sequence 1, Application US/09052521C					
Patient No. 6316408					
GENERAL INFORMATION:					
APPLICANT: Boyle, William J.					
TITLE OF INVENTION: Osteoprotegerin Binding Proteins and Receptors					
FILE REFERENCE: A-451Bry					
CURRENT APPLICATION NUMBER: US/09/052,521C					
PRIOR FILING DATE: 1998-03-30					
PRIOR APPLICATION NUMBER: 08/880, 855					
PRIOR FILING DATE: 1997-06-23					
PRIOR APPLICATION NUMBER: 08/842, 842					
PRIOR FILING DATE: 1997-04-16					
NUMBER OF SEQ ID NOS: 40					
SOFTWARE: PatentIn Ver. 2.1					
SEQ ID NO 1					
LENGTH: 2295					
TYPE: DNA					
ORGANISM: Mouse					
FEATURE:					
NAME/KEY: CDS					
LOCATION: (158)..(1105)					
US-09-052-521C-1					
Query Match	99.9%	Score 1628.4	DB 4	Length 2295	
Best Local Similarity	99.9%	Pred. No. 0			
Matches 1629	Conservative 0	Mismatches 1	Indels 0	Gaps 0	
1	CCGCGCGTCCACACGAGAGGCGCGCTCCACCCGCGCTTCTGACCGGCTCCGCGCGCGC	60			
222	CCGCGCGTCCACACGAGAGGCTCCGCTCCACCCGCGCTTCTGACCGGCTCCGCGCGCGC	281			
61	CACCGCGCGCTCCGCGCTCCATGTTCTGCGCCCTCCGCGCGCTGCGGACTGCGGCGAGTGG	120			
282	CACCGCGCGCTCCGCGCTCCATGTTCTGCGCCCTCCGCGCGCTGCGGACTGCGGCGAGTGG	341			
121	TCGCGAGCATCGCTGCTCTCTGTAAGTTTCGAGGCGGAGATGATGATCTTAACAGATATGAG	180			
342	TCGCGAGCATCGCTGCTCTCTGTAAGTTTCGAGGCGGAGATGATGATCTTAACAGATATGAG	401			
181	AAGACAGCATCTACGTCGTTTTTATGAATCTGAGACTCGATGAAACCGAGATTGACAG	240			
402	AAGACAGCATCTACGTCGTTTTTATGAATCTGAGACTCGATGAAACCGAGATTGACAG	461			
241	ACTGAGCATCTGAGAGTGAAGACACACTACCTGACTCTCGAGGAGATGAAACAGGCT	300			
462	ACTGAGCATCTGAGAGTGAAGACACACTACCTGACTCTCGAGGAGATGAAACAGGCT	521			
301	TTGACGAGGCGCGTGCAGAAAGGAACTGCAACACATTTGCGGCGCACAGCGCTTCCAGAG	360			
522	TTGACGAGGCGCGTGCAGAAAGGAACTGCAACACATTTGCGGCGCACAGCGCTTCCAGAG	581			
361	CTCCAGCATGATGGAAGGCTCATGTTGATGTTGGGCGCCAGCGAGGCAAGCTTGAGGCC	420			
582	CTCCAGCATGATGGAAGGCTCATGTTGATGTTGGGCGCCAGCGAGGCAAGCTTGAGGCC	641			
421	AGCATTGTCACACCTCATCAATCAATGTCGACATCCATCGGATTCCCATTAAGTCA	480			
642	AGCATTGTCACACCTCATCAATCAATGTCGACATCCATCGGATTCCCATTAAGTCA	701			
481	CTCTGCTCTCTGTTGATGACAGATGAGGCGGCGGCAAGATCTCTAAGATGAGCTTAAGCA	540			
702	CTCTGCTCTCTGTTGATGACAGATGAGGCGGCGGCAAGATCTCTAAGATGAGCTTAAGCA	761			
541	ACGGAAGAACTAAGGCTTAACCAAGATGCTTCTAATACCTGATGCGCAACATTTGCTTTC	600			
762	ACGGAAGAACTAAGGCTTAACCAAGATGCTTCTAATACCTGATGCGCAACATTTGCTTTC	821			
601	GGCATTCATGAAACATCGGAAGGTAACCTCAACATATCTGACGTGATGCTGATGCTG	660			
822	GGCATTCATGAAACATCGGAAGGTAACCTCAACATATCTGACGTGATGCTGATGCTG	881			

QY 661 TTAACACGACATCCAAATCCCAAGTCTCATACCTGATGAAGAGGAGCGACGAAA 720
 DB 882 TTAACACGACATCCAAATCCCAAGTCTCATACCTGATGAAGAGGAGCGACGAAA 941
 QY 721 ACTGCTGGGCAATTTCTAATTCACATTTTATTCATTAATGTTGGGGATTTTTCAGC 780
 DB 942 ACTGCTGGGCAATTTCTAATTCACATTTTATTCATTAATGTTGGGGATTTTTCAGC 1001
 QY 781 TCCGAGCTGTGAAGAAATAGCATTCAGGTGTGCAACCTCTCCCTCTGATCCGATC 840
 DB 1002 TCCGAGCTGTGAAGAAATAGCATTCAGGTGTGCAACCTCTCCCTCTGATCCGATC 1061
 QY 841 AAGATGGGACATCTTTGGGGCTTCAAGTTCAGACATAGACTGAGACTATTTCTGT 900
 DB 1062 AAGATGGGACATCTTTGGGGCTTCAAGTTCAGACATAGACTGAGACTATTTCTGT 1121
 QY 901 GAACATTAGCATGATGCTCTAGATGTTTGAAGAACTCTTAATAAATGATGATGCTAT 960
 DB 1122 GAACATTAGCATGATGCTCTAGATGTTTGAAGAACTCTTAATAAATGATGATGCTAT 1181
 QY 961 ACATGCTAGACTACTAGAGACATGGCCAGGCTGTATGAAGCTCACAGCCCTCTCTC 1020
 DB 1182 ACATGCTAGACTACTAGAGACATGGCCAGGCTGTATGAAGCTCACAGCCCTCTCTC 1241
 QY 1021 TTGAGCTGTACAGGTTGTATATGTTTGAAGTTCATAGCTGATGATGATGAT 1080
 DB 1242 TTGAGCTGTACAGGTTGTATATGTTTGAAGTTCATAGCTGATGATGATGATGAT 1301
 QY 1081 TACACACAGGTTTACAAATTTGTATATGATTTCTAGAAATTAACAGATGGAGAGT 1140
 DB 1302 TACACACAGGTTTACAAATTTGTATATGATTTCTAGAAATTAACAGATGGAGAGT 1361
 QY 1141 ATTCGATGCTTATGAAGAACTTACACGCTGATGATGATGATGATGATGATGAT 1200
 DB 1362 ATTCGATGCTTATGAAGAACTTACACGCTGATGATGATGATGATGATGATGAT 1421
 QY 1201 CTACACCTGTGACATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
 DB 1422 CTACACCTGTGACATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1481
 QY 1261 AAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1320
 DB 1482 AAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1541
 QY 1321 AATAAGTCTTTTCTTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
 DB 1542 AATAAGTCTTTTCTTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1601
 QY 1381 AAGTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
 DB 1602 AAGTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1661
 QY 1441 AGTATTTGATCAAAATATTTTAAATGTCACATGTTTAAATGTTTAAATG 1500
 DB 1662 AGTATTTGATCAAAATATTTTAAATGTCACATGTTTAAATGTTTAAATG 1721
 QY 1501 TACAGATGATTTTAAAGGTCATTTTAAATGTCATGATGATGATGATGATGATGAT 1560
 DB 1722 TACAGATGATTTTAAAGGTCATTTTAAATGTCATGATGATGATGATGATGATGAT 1781
 QY 1561 GCAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1620
 DB 1782 GCAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1841
 QY 1621 GAGCTTTCAG 1690
 DB 1842 GAGCTTTCAG 1851

RESULT 11
 US-08-989-362-1
 : Sequence 1, Application US/08989362
 : Patent No. 6242586

GENERAL INFORMATION:
 APPLICANT: Gorman, Daniel M.
 TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESS: 901 California Avenue
 CITY: Palo Alto
 STATE: California
 COUNTRY: USA
 ZIP: 94304-1104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/989,362
 FILING DATE: 12-DEC-1997
 CLASSIFICATION: 56
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/032,846
 FILING DATE: 13-DEC-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Ching, Edwin P.
 REGISTRATION NUMBER: 34,090
 REFERENCE/DOCKET NUMBER: DX0686
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650)852-9196
 TELEFAX: (650)496-1204
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2191 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 125..1072
 US-08-989-362-1

Query Match 99.1%; Score 1615.8; DB 3; Length 2191;
 Best Local Similarity 99.8%; Pred. No. 0;
 Matches 1628; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 CCGGGCTCCACACGAGGATCCGCTGACACCCCGGCTTTCGACCCGCTCCGCGCCG 60
 DB 189 CCGGGCTCCACACGAGGATCCGCTGACACCCCGGCTTTCGACCCGCTCCGCGCCG 248
 QY 61 CACCCGCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 120
 DB 249 CACCCGCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 308
 QY 121 TCTGAGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
 DB 309 TCTGAGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 368
 QY 181 AAGACAGACATGCTGCTTATTAAGATCTGACACTGCAATGAAGAAAGCAGATTGCGAG 240
 DB 369 AAGACAGACATGCTGCTTATTAAGATCTGACACTGCAATGAAGAAAGCAGATTGCGAG 428
 QY 241 ACTGACTCTGAGAGTGAAGACACACTACTGACTGCTCTCTGAGAGAGATGAAGAGCT 300
 DB 429 ACTGACTCTGAGAGTGAAGACACACTACTGACTGCTCTCTGAGAGAGATGAAGAGCT 488
 QY 301 TTCAGGGGCGCTGCAAGGAACTGCAACATTTGAGGGCCACAGCGCTTTCAGGAG 360
 DB 489 TTCAGGGGCGCTGCAAGGAACTGCAACATTTGAGGGCCACAGCGCTTTCAGGAG 548
 QY 361 CTCGAGCTATGATGAAGGCTCATGCTGATGTGGCCACGAGGCAAGGCTGAGCGCC 420

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Db      549 CTCACGCTATGATGGAAGGCTCATGTTGATGATGTCGACGAGGCAAGGCTGAGGCCC 608
Qy      421 AGCCATTTGCACACCTCCACCATCATATGCTGCCAGCATCCCATCGGGTTCCTAAAGTCA 480
Db      609 AGCATTTCACACCTCCACCATCAATGCTGCCAGCATCCCATCGGGTTCCTAAAGTCA 668
Qy      481 CTCTGTCCTCTGCTGATGACGATGAGGCTGGGCGCAAGTCTCTAATCATGATGATTAAGCA 540
Db      669 CTCTGTCCTCTGCTGATGACGATGAGGCTGGGCGCAAGTCTCTAATCATGATGATTAAGCA 728
Qy      541 AGCGAAATTAAGGTTAAACCAAGATGCTTATTAATCTGATGACCAATCTTCTTTC 600
Db      729 AGCGAAATTAAGGTTAAACCAAGATGCTTATTAATCTGATGACCAATCTTCTTTC 788
Qy      601 GGCATCATGAAACATCGGGAAGCGTACCTACGATCATCTTACGATGATGCTGATGCTG 660
Db      789 GGCATCATGAAACATCGGGAAGCGTACCTACGATCATCTTACGATGATGCTGATGCTG 848
Qy      661 TTTAAACCGCATCAAAATCCCAAGTCTCATTAACCTGATGAAAGGAGGAGCAAGAA 720
Db      849 TTTAAACCGCATCAAAATCCCAAGTCTCATTAACCTGATGAAAGGAGGAGCAAGAA 908
Qy      721 ACTGTCGGGCAATCTGCAATTCACCTTATTCATTAATGCTGGGAGATTTTCAAGC 780
Db      909 ACTGTCGGGCAATCTGCAATTCACCTTATTCATTAATGCTGGGAGATTTTCAAGC 968
Qy      781 TCCGAGCTGCTGAGAAATTAAGCATTCAGGCTCCAACTTCCCTGCTGATCCGATC 840
Db      969 TCCGAGCTGCTGAGAAATTAAGCATTCAGGCTCCAACTTCCCTGCTGATCCGATC 1028
Qy      841 AAGATGCGAGCTACTTTGGGGCTTCAAAATTCAGAGCATATGATGATGATGATGCTG 900
Db      1029 AAGATGCGAGCTACTTTGGGGCTTCAAAATTCAGAGCATATGATGATGATGATGCTG 1088
Qy      901 GACATTAAGCATGATGATGCTGATGATGATGATGATGATGATGATGATGATGATGAT 960
Db      1089 GACATTAAGCATGATGATGCTGATGATGATGATGATGATGATGATGATGATGATGAT 1148
Qy      961 ACATGCTGAAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Db      1149 ACATGCTGAAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1208
Qy      1021 TTGAGCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
Db      1209 TTGAGCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1268
Qy      1081 TACACAACGGTTTACAAATTTTGAATGATTTCT -AGAATGGAACGATGAGAGAG 1139
Db      1269 TACACAACGGTTTACAAATTTTGAATGATTTCTTAAGAAATGGAACGATGAGAGAG 1328
Qy      1140 TATTCGATGCTTATGAAAAAATTAACAGTACGATGAGAGAGAGAGAGAGAGAG 1199
Db      1329 TATTCGATGCTTATGAAAAAATTAACAGTACGATGAGAGAGAGAGAGAGAGAG 1388
Qy      1200 TCTAACCCCTGAGCATGCTGACCTGAGAACCTTGAATTAAGAGATGCCATGCTATTG 1259
Db      1389 TCTAACCCCTGAGCATGCTGACCTGAGAACCTTGAATTAAGAGATGCCATGCTATTG 1448
Qy      1260 AAGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1319
Db      1449 AAGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1508
Qy      1320 CAATTAAGCTTTTCTTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1379
Db      1509 CAATTAAGCTTTTCTTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1568
Qy      1380 AAGATTAATTAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1439
Db      1569 AAGATTAATTAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1628
Qy      1440 TAGTATTTGATTCAAAATATTTAAATGCTACGATGATGATGATGATGATGAT 1499

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Db      1629 TAGTATTTGATTCAAAATATTTAAATGCTACGATGATGATGATGATGAT 1688
Qy      1500 GTACAGATGATTTTAACGTGTCATCTTGTATTCCTGTAAGGATCTGATGATGAT 1559
Db      1689 GTACAGATGATTTTAACGTGTCATCTTGTATTCCTGTAAGGATCTGATGATGAT 1748
Qy      1560 GGCAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1619
Db      1749 GGCAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1808
Qy      1620 AGAGCTTTCAG 1630
Db      1809 AGAGCTTTCAG 1819

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RESULT 12
US-09-671-658A-1
: Sequence 1, Application US/09671658A
: Patent No. 6525180
: GENERAL INFORMATION:
: APPLICANT: Gorman, Daniel M.
:               Mattson, Jeanine D.
: TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
:               Reagents
: NUMBER OF SEQUENCES: 2
: CORRESPONDENCE ADDRESS:
: ADDRESS: DNAX Research Institute
: STREET: 901 California Avenue
: CITY: Palo Alto
: STATE: California
: COUNTRY: USA
: ZIP: 94304-1104
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/671,658A
: FILING DATE: 27-Sep-2000
: CLASSIFICATION: <unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/989,362
: FILING DATE: 12-Dec-1997
: APPLICATION NUMBER: US 60/032,846
: FILING DATE: 13-Dec-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Ching, Edwin P.
: REGISTRATION NUMBER: 34,090
: REFERENCE/DOCKET NUMBER: DX0686
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (650)852-9196
: TELEFAX: (650)496-1204
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2191 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 125..1072
: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-671-658A-1

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Query Match      99.1% Score 1615.8 DB 4: Length 2191:
Best Local Similarity 99.8% Pred. No. 0:
Matches 1628: Conservative 0: Mismatches 2: Indels 1: Gaps 1:
Qy      1 CGGCGCTCCACAGAGAGGTCGCTGCACCCCGCCTTGTGACCGGCTCCGCGCGCG 60
Db      189 CGGCGCTCCACAGAGAGGTCGCTGCACCCCGCCTTGTGACCGGCTCCGCGCGCG 248

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QY	1140	TATTCGATGCTTATGAAAACTACACGAGCTATGGAAGGGGGCTCAGCTCTCTGGG	1195
Db	1329	TATTCGATGCTTATGAAAACTACACGAGCTATGGAAGGGGGCTCAGCTCTCTGGG	1386
QY	1200	TCTAACCCCTGGACATGTGGCCTGAGAACCTTGAATTAAGAGATGCCATGTCATTGC	1258
Db	1389	TCTAACCCCTGGACATGTGGCCTGAGAACCTTGAATTAAGAGATGCCATGTCATTGC	1448
QY	1260	AAGAAATGATAGTGTGAAGGGTTAAGTCTTTGAATGTTCACATTCGGCTGGGACCTG	1319
Db	1449	AAGAAATGATAGTGTGAAGGGTTAAGTCTTTGAATGTTCACATTCGGCTGGGACCTG	1508
QY	1320	CAATTAAGTCTTTTTTTCTAATGAGGAGAGAAAAATATATGATTTTATATATAGTCT	1379
Db	1509	CAATTAAGTCTTTTTTTCTAATGAGGAGAGAAAAATATATGATTTTATATATAGTCT	1568
QY	1380	AAAGTATATATTCAGGTGTAATGTCTTGTGCAAGTTGTGTAATATATTTGTGCTA	1439
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Db	1809	AAGAGTCTTCAG	1819

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RESULT 13
US-09-052-521C-3
; Sequence 3, Application US/09052521C
; Patent No. 6316408
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; TITLE OF INVENTION: Osteoprotegerin Binding Proteins and Receptors
; FILE REFERENCE: A-451biv
; CURRENT APPLICATION NUMBER: US/09/052,521C
; PRIOR APPLICATION NUMBER: 1998-03-30
; PRIOR FILING DATE: 08/880,855
; PRIOR APPLICATION NUMBER: 1997-06-23
; PRIOR FILING DATE: 08/842,842
; NUMBER OF SPO ID NOS: 40
; SOFTWARE: Patentin Ver. 2.1
; SPO ID NO 3
; LENGTH: 2271
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (185)..(1135)
US-09-052-521C-3

Query Match      57.6%  Score 939 6; DB 4; Length 2271;
Best Local Similarity 78.1%  Pred. No. 5.6e-247;
Matches 1285; Conservative 0; Mismatches 314; Indels 47; Gaps 11,

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Db      306  CCGCGCGCGCGCTCCCGGCTGCATGTTCTCTGGCCCTCTCTGGGGGTGGGACTGGGCGCAGGTGG 365

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TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 954 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 IMMEDIATE SOURCE:
 LIBRARY:
 CLONE: huRANKL (full length)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..951
 US-08-936-139-12

Query Match 37.7% Score 615; DB 3; Length 954;
 Best Local Similarity 82.2% Pred. No. 2.1e-158;
 Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;

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 65 CCGAGGCCCGGACAGAGGCCCCCTGACGCGCCGCG---CGCGCTGCGCGCACACAC 121
 61 CACCGCGCGCTCCGCTCCGCTGACGCTGCTGCGGCGCTGCGGCGCGCGCGAGT 120
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 535 TAAGCAG 594
 602 TTACGATAG 661
 595 GCTTGGCAG 654
 662 GCTTGGCAG 721
 655 ATGTGCTTAAACAG 714
 722 ACGTCACTAAACAG 781

715 CGAAG 774
 782 CCAAGATAG 841
 775 TCAAGCTCCGAG 834
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 835 CGATACAG 887
 902 CGATACAG 954

RESULT 15

US-08-995-659-12
 Sequence 12, Application US/08995659
 Patent No. 6242213

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.
 APPLICANT: Galibert, Laurent
 APPLICANT: Mareskovsky, Eugene
 TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/995,659
 FILING DATE: 22 DECEMBER 1997
 CLASSIFICATION:

Prior Application Data:
 APPLICATION NUMBER: US95 60/064,671
 FILING DATE: 14 OCTOBER 1997
 CLASSIFICATION:

Prior Application Data:
 APPLICATION NUMBER: US95 08/813,509
 FILING DATE: 07 MARCH 1997
 CLASSIFICATION:

Prior Application Data:
 APPLICATION NUMBER: US95 08/772,330
 FILING DATE: 23 DECEMBER 1996
 CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2852-A

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644

SEQUENCE CHARACTERISTICS:
 LENGTH: 954 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO

ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 IMMEDIATE SOURCE:
 LIBRARY:
 CLONE: huRANKL (full length)
 FEATURE:

NAME/KEY: CDS
LOCATION: 1..951
US-08-995-659-12

Query Match 37.7%; Score 615; DB 3; Length 954;
Best Local Similarity 82.2%; Pred. No. 2, 1e-158;

Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;

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Job time: 111 secs

Thu Sep 11 16:16:45 2003

us-09-688-459-10.rnpb

Page 1

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 10, 2003, 21:26:54 ; Search time 411 Seconds

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Perfect score: 1630

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Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 1632420 seqs, 1213878141 residues

Total number of hits satisfying chosen parameters: 3264840

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1630	100.0	1630	10	US-09-877-650-10
3	1629.4	99.9	2295	11	US-09-079-569-6
4	1615.8	99.1	2191	12	US-10-326-052-1
5	1586.2	97.4	2237	13	US-10-017-910-3
6	939.6	57.6	2271	14	US-10-218-547-21
7	928.6	57.0	2201	14	US-10-272-411-51
8	885.4	54.3	951	14	US-10-105-057-1
9	883.8	51.1	1823	13	US-10-272-328A-51
10	832.8	51.1	1823	13	US-10-017-910-1
11	832.8	51.1	1823	14	US-10-272-411-1
12	832.8	51.1	1823	14	US-10-272-328A-1
13	615	37.7	954	9	US-09-871-856-12
14	615	37.7	954	10	US-09-877-650-12
15	466	28.6	522	11	US-09-791-153A-75
16	97	6.0	1161	10	US-09-880-457-1

17	97	6.0	1166	10	US-09-880-457-3	Sequence 3, Appl1
18	97	6.0	1166	12	US-10-216-163-81	Sequence 81, Appl1
19	97	6.0	1186	14	US-10-227-884-81	Sequence 81, Appl1
20	97	6.0	1186	14	US-10-230-163-81	Sequence 81, Appl1
21	97	6.0	1186	14	US-10-230-338-81	Sequence 81, Appl1
22	97	6.0	1186	14	US-10-218-631-81	Sequence 81, Appl1
23	97	6.0	1186	14	US-10-230-414-81	Sequence 81, Appl1
24	97	6.0	1186	14	US-10-216-159A-81	Sequence 81, Appl1
25	97	6.0	1186	14	US-10-218-849-81	Sequence 81, Appl1
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28	97	6.0	1186	14	US-10-230-434-81	Sequence 81, Appl1
29	97	6.0	1186	14	US-10-219-003-81	Sequence 81, Appl1
30	97	6.0	1186	14	US-10-219-075-81	Sequence 81, Appl1
31	97	6.0	1186	14	US-10-219-464-81	Sequence 81, Appl1
32	97	6.0	1186	14	US-10-219-468-81	Sequence 81, Appl1
33	97	6.0	1186	14	US-10-219-478-81	Sequence 81, Appl1
34	97	6.0	1186	14	US-10-219-536-81	Sequence 81, Appl1
35	97	6.0	1186	14	US-10-233-205-81	Sequence 81, Appl1
36	97	6.0	1186	14	US-10-219-072-81	Sequence 81, Appl1
37	97	6.0	1186	14	US-10-233-231-81	Sequence 81, Appl1
38	97	6.0	1186	14	US-10-233-231-81	Sequence 81, Appl1
39	97	6.0	1186	14	US-10-218-956-81	Sequence 81, Appl1
40	97	6.0	1186	14	US-10-219-468-81	Sequence 81, Appl1
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ALIGNMENTS

RESULT 1
US-09-871-856-10
Sequence 10, Application US/09871856
Patent No. US20020081720A1

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.
Galburt, Laurent
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESS: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Apple Power Macintosh
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/871.856
FILING DATE: 31 May-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/996,139
FILING DATE: <Unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1630 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Mus musculus
 IMMEDIATE SOURCE:
 LIBRARY: <unknown>
 CLONE: RANKL
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..884
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 US-09-871-856-10

Query Match 100.0% Score 1630; DB 9; Length 1630;
 Seq: Local Similarity 100.0%; Pred. No. 0;
 Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      1  CCGGCGTCCACACGAGGGTCCGCTGACACCCCGCCCTTCTGACCGGCTCCGGCGCCGC
QY      61  CACCCCGCCCTCCCGCTCCATGTTCCGCTGAGGCTGGAGACTGGGCGGCGAGTGG
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DB     241  ACTCGACTGTGAGAGTGAAGACACACTACCTGACTCTGTCAGAGAGATGAAAGCCT
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DB     301  TTCAGGGGGCCGTCGAGAGAACTGCAACACTGTGGGGCCACAGGGCTTCCAGAGAG
QY     361  CTCGAGCTATGATGGAAGGCTCATGTTGATGTGGCCACAGGAGGAGGAGGAGGAG
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QY     421  AGCCATTGACACACTCATCATATGTTGTCAGATCCCATCCGCTTCCCATTAAGTCA
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QY    1561  GCAGAACTGTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
DB    1561  GCAGAACTGTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
QY    1621  GAGTCTTACG 1630
DB    1621  GAGTCTTACG 1630
  
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RESULT 2
 US-09-877-650-10
 Sequence 10, Application us/09877650
 Patent No. US20020169117A1
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibert, Laurent
 Markoskovsky, Eugene


```

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/877,650
FILING DATE: 08-Jun-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/995,659
FILING DATE: 1997-12-22
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1630 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Mus musculus
IMMEDIATE SOURCE:
LIBRARY: <unknown>
FEATURE:
NAME/KEY: CDS
LOCATION: 3..884
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-877-650-10
Query Match 100.0%; Score 1630; DB 10; Length 1630;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1630; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 241 ACTGACCTCTGAGAGTAGAGAGACACACTACCTGCTCTCAGAGAGATGAACAAGCCT 300
Qy 301 TTGAGGGGGCCGTCAGAGAGAACCTGCACACATTTGGGGGCACAGCGGTTCTCGAGG 360
Db 301 TTGAGGGGGCCGTCAGAGAGAACCTGCACACATTTGGGGGCACAGCGGTTCTCGAGG 360
Qy 361 CTCGAGCTATGAGAGAGGCTCATGTTGGATGTGGCCACGAGGCAAGCCTGAGGCC 420
Db 361 CTCGAGCTATGAGAGAGGCTCATGTTGGATGTGGCCACGAGGCAAGCCTGAGGCC 420
Qy 421 AGCCATTGGACACCTCACCATCATGCTCCAGCATGCCATCGGGTTCCCTAAAGTCA 480
Db 421 AGCCATTGGACACCTCACCATCATGCTCCAGCATGCCATCGGGTTCCCTAAAGTCA 480
Qy 481 CTCGTGCTCTTGTGACACAGATCGAGGCTGGGCCAAGATCTTAACATGACGTTAAGCA 540
Db 481 CTCGTGCTCTTGTGACACAGATCGAGGCTGGGCCAAGATCTTAACATGACGTTAAGCA 540
Qy 541 ACGGAAAGCTAAGGGTTAACCAAGATGGCTTATTACCTGACCCCAACATTTGCTTTC 600
Db 541 ACGGAAAGCTAAGGGTTAACCAAGATGGCTTATTACCTGACCCCAACATTTGCTTTC 600
Qy 601 GGCATATGAACATGGGAGCGTACCTACAGACTATCTTCAGCTGATGGTATGTG 660
Db 601 GGCATATGAACATGGGAGCGTACCTACAGACTATCTTCAGCTGATGGTATGTG 660
Qy 661 TTAACACAGCATCAAAATCCCAAGTTCATTAACCTGATGAAGAGAGGAGCGCAAAA 720
Db 661 TTAACACAGCATCAAAATCCCAAGTTCATTAACCTGATGAAGAGAGGAGCGCAAAA 720
Qy 721 ACTGGTGGGGAATTTCTGAATTCACCTTTATTCATTAATGTTGGGGATTTTCAAGC 780
Db 721 ACTGGTGGGGAATTTCTGAATTCACCTTTATTCATTAATGTTGGGGATTTTCAAGC 780
Qy 781 TCCGAGCTGTGAGAAATTAAGCATTCAGGCTGCAACCCCTGCTGATCGGATC 840
Db 781 TCCGAGCTGTGAGAAATTAAGCATTCAGGCTGCAACCCCTGCTGATCGGATC 840
Qy 841 AAGATGCACGCTACTTGGGGCTTTCAAAGTTGAGGACATAGACTGACATTCGTCG 900
Db 841 AAGATGCACGCTACTTGGGGCTTTCAAAGTTGAGGACATAGACTGACATTCGTCG 900
Qy 901 GAACATTAGCATGATGCTTCAGATGTTTGAATCTTAAATAATGATGATGTCAT 960
Db 901 GAACATTAGCATGATGCTTCAGATGTTTGAATCTTAAATAATGATGATGTCAT 960
Qy 961 ACATGTGAAGACTACTAAGAGACATGGCCAGGCTATGAACCTCACAGCCCTCTTC 1020
Db 961 ACATGTGAAGACTACTAAGAGACATGGCCAGGCTATGAACCTCACAGCCCTCTTC 1020
Qy 1021 TTGAGCCTGACAGGTTGTATATGTAAGTCCATAGTGATGTTAGTATGATGAT 1080
Db 1021 TTGAGCCTGACAGGTTGTATATGTAAGTCCATAGTGATGTTAGTATGATGAT 1080
Qy 1081 TACACAAGGTTTACATTTTGTATGATTTCTTAAGATTAAGCAAGATTGGAGAGGT 1140
Db 1081 TACACAAGGTTTACATTTTGTATGATTTCTTAAGATTAAGCAAGATTGGAGAGGT 1140
Qy 1141 ATTCCAGTGTATGAAAAAATTACAGTGTAGTATGAAGGGGTCACAGTCTTGAGT 1200
Db 1141 ATTCCAGTGTATGAAAAAATTACAGTGTAGTATGAAGGGGTCACAGTCTTGAGT 1200
Qy 1201 CTAAACCCCTGAGATGTGCACATGAGAACCTTGAAGATTAAGAGATGCCATGTATGCA 1260
Db 1201 CTAAACCCCTGAGATGTGCACATGAGAACCTTGAAGATTAAGAGATGCCATGTATGCA 1260
Qy 1261 AAGAATGATGTGTGAAGGGTTAAGTCTTTTGAATTTACATTTGGCTGGGACCTGC 1320
Db 1261 AAGAATGATGTGTGAAGGGTTAAGTCTTTTGAATTTACATTTGGCTGGGACCTGC 1320
Qy 1321 AATAAGTCTTTTCTTAATGAGAGAAAAATATATGATTTTATTAATGTCCTA 1380
Db 1321 AATAAGTCTTTTCTTAATGAGAGAAAAATATATGATTTTATTAATGTCCTA 1380

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Thu Sep 11 16:16:45 2003

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Page 5

DB 1362 ATTCGATGCTTATGAAAACTTACACGAGATATGAGAGGGGGTCAACAGTCTGCT 1421
QY 1201 CTAAACCCCTGACATGTCGACAGACAACTTGAATTAAGAGATGCCATGCTCAATGCA 1260
DB 1422 CTAAACCCCTGACATGTCGACAGACAACTTGAATTAAGAGATGCCATGCTCAATGCA 1481
QY 1261 AAGAAATGATGCTGAGAGGTTAAGTCTTTGATGATGTTGCTGCTGCTGCTGCTGCT 1320
DB 1482 AAGAAATGATGCTGAGAGGTTAAGTCTTTGATGATGTTGCTGCTGCTGCTGCTGCT 1541
QY 1321 AATAAGTCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1380
DB 1542 AATAAGTCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1601
QY 1381 AAGTATATTTGAGGTTAAGTCTTTGATGATGTTGCTGCTGCTGCTGCTGCTGCT 1440
DB 1602 AAGTATATTTGAGGTTAAGTCTTTGATGATGTTGCTGCTGCTGCTGCTGCTGCT 1661
QY 1441 AGTATTTGATCAAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA 1500
DB 1662 AGTATTTGATCAAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA 1721
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DB 1722 TACGAGTATTTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1781
QY 1561 GCAGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620
DB 1782 GCAGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1841
QY 1621 GAGCTCTGAG 1650
DB 1842 GAGCTCTGAG 1851

RESULT 4
US-10-326-052-1
Sequence 1, Application US/10326052
Publication No. US20030144480A1
GENERAL INFORMATION:
APPLICANT: Gorman, Daniel M.
TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: DMAX Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/326, 052
FILING DATE: 23-Dec-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/671, 658A
FILING DATE: 27-Sep-2000
APPLICATION NUMBER: US/08/989, 362
FILING DATE: 12-Dec-1997
APPLICATION NUMBER: US 60/032, 846
FILING DATE: 13-Dec-1996
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34, 090
REFERENCE/DOCKET NUMBER: DX0686

TELECOMMUNICATION INFORMATION:
TELEPHONE: (650)852-9196
TELEFAX: (650)496-1204
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2191 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 125..1072
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-326-052-1

Query Match 99.1%; Score 1615.8; DB 12; Length 2191;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1628; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 CCGGGGTCACACAGAGGTCGCTGCAACCCGCGCTTCTGCAACGGCTCCGGCGCGC 60
DB 189 CCGGGGTCACACAGAGGTCGCTGCAACCCGCGCTTCTGCAACGGCTCCGGCGCGC 248
QY 61 CACCGCGCGCTCCGCTCCATGTTCTGCGCCCTCTGCGGGCTGGGACTGGGCTAGGTG 120
DB 249 CACCGCGCGCTCCGCTCCATGTTCTGCGCCCTCTGCGGGCTGGGACTGGGCTAGGTG 308
QY 121 TCTGAGCATGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
DB 309 TCTGAGCATGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 368
QY 181 AAGACAGCATCTGCTGCTTATAGATCTGAGATCTGAGATCTGAGATCTGAGATCTGAG 240
DB 369 AAGACAGCATCTGCTGCTTATAGATCTGAGATCTGAGATCTGAGATCTGAGATCTGAG 428
QY 241 ACTGAGCTGAGAGAGTGAAGAGACACACTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
DB 429 ACTGAGCTGAGAGAGTGAAGAGACACACTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 488
QY 301 TTGAGGGGGCGCTGCGAGAGAACTGCAACATCTGCGGGCCGACAGCCCTTCTGAGAG 360
DB 489 TTGAGGGGGCGCTGCGAGAGAACTGCAACATCTGCGGGCCGACAGCCCTTCTGAGAG 548
QY 361 CTCGAGCTATGATGAGAGGCTCATGTTGATGTTGCGCCAGGAGGAGCAAGCTGAGGCC 420
DB 549 CTCGAGCTATGATGAGAGGCTCATGTTGATGTTGCGCCAGGAGGAGCAAGCTGAGGCC 608
QY 421 AGCCATTGCGACACTGACATCAATGCTGCGAGATCCCATCGGGTCCCTAAAGTCA 480
DB 609 AGCCATTGCGACACTGACATCAATGCTGCGAGATCCCATCGGGTCCCTAAAGTCA 668
QY 481 CTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
DB 669 CTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 728
QY 541 ACGGAAACTAAGGTTAAGCAAGATGCTTATACCTGATGAGCAAACTTGTCTTC 600
DB 729 ACGGAAACTAAGGTTAAGCAAGATGCTTATACCTGATGAGCAAACTTGTCTTC 788
QY 601 GGCATCATGAAACATCGGGAAGCGTACCTAGACTATCTGACCTGATGATGCTG 660
DB 789 GGCATCATGAAACATCGGGAAGCGTACCTAGACTATCTGACCTGATGATGCTG 848
QY 661 TTAAGCAGCATCAAAATCCAGTCTCTAATCTGATGAGAAAGAGGAGGAGCAAGAAA 720
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QY 721 ACTGCTGGGCAATTGCAATTCATCTTATTCATTAATGTTGGGGATTTTCAAC 780
DB 909 ACTGCTGGGCAATTGCAATTCATCTTATTCATTAATGTTGGGGATTTTCAAC 968
QY 781 TCCGAGCTGTGAAGAAATTAGCATTCAGGTGTCACACCTTCTGCTGATCCGAGTC 840

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Db      969 TCCGAGCTGGTGAAGAAATTAGCATTCAGGTGTCCAAACCTTCCCTGCTGGATCGGATC 1028
QY      841 AAGAGCGGACGCTACTTGGGGCTTCCAAAGTTCAGAGCATAGACTGAGACTCATTTGCTG 900
      1029 AAGATGCGGACGCTACTTGGGGCTTCCAAAGTTCAGAGCATAGACTGAGACTCATTTGCTG 1088
QY      901 GAACATTAAGCATGATGCTCTAGATGTTTGGAACTTCTTAAAGATGATGCTAT 960
      1089 GACCATTAAGCATGATGCTCTAGATGTTTGGAACTTCTTAAAGATGATGCTAT 1148
QY      961 ACATGTAAGCATGCTAAAGACATGGCCGCGTGTATGAAACATGACGCCCTCTCTC 1020
      1149 ACATGTAAGCATGCTAAAGACATGGCCGCGTGTATGAAACATGACGCCCTCTCTC 1208
QY      1021 TTGACCTGTACAGGTGTGTATATGTAAGTCCATGAGTGTATGATCTATGAT 1080
      1209 TTGACCTGTACAGGTGTGTATATGTAAGTCCATGAGTGTATGATCTATGAT 1268
QY      1081 TACCAACGGTTTACAAATTTTGAATGATTTCT -AGAATTGACCATGTTGGAGAG 1139
      1269 TACCAACGGTTTACAAATTTTGAATGATTTCT -AGAATTGACCATGTTGGAGAG 1328
QY      1140 TATTCGATGCTATGAAAACTTACACGTGACGTATGGAAGGGGCTCACAGTCTTGGG 1199
      1329 TATTCGATGCTATGAAAACTTACACGTGACGTATGGAAGGGGCTCACAGTCTTGGG 1388
QY      1200 TCTAACCCCTGGACATGTGCACTGAGAACCTTGAATTAAGAGATGCCATGTCATTC 1259
      1389 TCTAACCCCTGGACATGTGCACTGAGAACCTTGAATTAAGAGATGCCATGTCATTC 1448
QY      1260 AAGAAATGATGTAAGAGGTTAAGTCTTGAATGTAATGTAATGTAATGTAATGTA 1319
      1449 AAGAAATGATGTAAGAGGTTAAGTCTTGAATGTAATGTAATGTAATGTAATGTA 1508
QY      1320 CAATAAGTCTTCTTCTTCAATGAGAGAGAAAAATATATATATATATATATATAT 1379
      1509 CAATAAGTCTTCTTCTTCAATGAGAGAGAAAAATATATATATATATATATATAT 1568
QY      1380 AAGTATATATTCAGGTATATGTTTCTGTCAAGTCTTGAATATATATATATAT 1439
      1569 AAGTATATATTCAGGTATATGTTTCTGTCAAGTCTTGAATATATATATATATAT 1628
QY      1440 TAGTATTTGATTCAAAAATTTTAAAAATGTCACATGTTGACATATTAATGTTTAA 1499
      1629 TAGTATTTGATTCAAAAATTTTAAAAATGTCACATGTTGACATATTAATGTTTAA 1688
QY      1500 GTACAGATGATTTAACTGCTGACACTTGTATTCCTCGAAGGATCCGAGTAGAGG 1559
      1689 GTACAGATGATTTAACTGCTGACACTTGTATTCCTCGAAGGATCCGAGTAGAGG 1748
QY      1560 GGCAGAAATACGTTTCTGCTGACACCATGATGTTTCTTATTTCTTTTAACTTAAT 1619
      1749 GGCAGAAATACGTTTCTGCTGACACCATGATGTTTCTTATTTCTTTTAACTTAAT 1808
QY      1620 AAGATCTTCAG 1630
      1809 AAGATCTTCAG 1819
Db

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RESULT 5
US-10-017-910-3
; Sequence 3, Application US/10017910
; Publication No. US20020159970A1
GENERAL INFORMATION:
APPLICANT: Choi, Yongwon
            Mong, Brian
            Josien, Regis
            Steinman, Ralph
TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNE SUPERFAMILY
INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING SAM
METHODS OF USE THEREOF
NUMBER OF SEQUENCES: 14

```

CORRESPONDENCE ADDRESS:

ADDRESSEE: Klaiber & Jackson
STREET: 411 Hackensack Avenue, 4th Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/017,910
FILING DATE: 14-Dec-2001
CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/447,035
FILING DATE: 1999-11-22

ATTORNEY/AGENT INFORMATION:

NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 2237 base pairs
TYPE: nucleic acid
STRANDEDNESS: double

MOLECULE TYPE: linear
TOPOLOGY: linear

HYPOTHETICAL: NO
ORIGINAL SOURCE:

ORGANISM: Mus musculus

FEATURE:

NAME/KEY: CDS
LOCATION: 142..1092

SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-10-017-910-3

Query Match 97.4%; Score 1588.2; DB 13; Length 2237;
Best Local Similarity 99.6%; Pred. No. 0;

Matches 1624; Conservative 0; Mismatches 3; Indels 4; Gaps 3;

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QY      1 CCGGGGTCACACAGAGGTCGCTGCAACCCGCGCTTCTGCAACCGCTCCGGCGCGC 60
      206 CCGGGTCCACACAGAGGTCGCTGCAACCCGCGCTTCTGCAACCGCTCCGGCGCGC 265
QY      61 CACCGCGCGCTCCCGCTCATGTTCTGGGCGCTCCGCGGCGTGGAGACTGCGCAGCTG 120
      266 CACCGCGCGCTCCCGCTCATGTTCTGGGCGCTCCGCGGCGTGGAGACTGCGCAGCTG 325
QY      121 TCTGAGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
      326 TCTGAGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 385
QY      181 AAGACAGCACTCACTGCTTTTATAGAAATCCTGAGACTCCATGAAACGAGATTTCAG 240
      386 AAGACAGCACTCACTGCTTTTATAGAAATCCTGAGACTCCATGAAACGAGATTTCAG 445
QY      241 ACTGACTCTGAGAGAGTGAAGACACACTACCTGACTCTGACAGAGATGAACAAAGCT 300
      446 ACTGACTCTGAGAGAGTGAAGACACACTACCTGACTCTGACAGAGATGAACAAAGCT 505
QY      301 TTGAGGGGCGCTGACAGAGAACTCAACACATTTGAGGGGACAGGGCTTTCAGAGAG 360
      506 TTGAGGGGCGCTGACAGAGAACTCAACACATTTGAGGGGACAGGGCTTTCAGAGAG 565
QY      361 CTCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 420

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Db 566 CTCAGCTATGATGAGGCTCATGGTGTGATGTGGCCACGAGGAGGAGCCTGAGGCC 625
Qy 421 AGCCATTGACACCTTACCATCATATGCTGCGACATCCCATCGGGTCCCATTAAGTCA 480
Db 626 AGCCATTGACACCTTACCATCATATGCTGCGACATCCCATCGGGTCCCATTAAGTCA 480
Qy 481 CTCTGTCTCTTGTGACACGATCGAGGCTGGGCGCCAAATCTCTAATGACGTTAAGCA 540
Db 686 CTCTGTCTCTTGTGACACGATCGAGGCTGGGCGCCAAATCTCTAATGACGTTAAGCA 540
Qy 541 ACGGAAACTAAGGCTTAAACCAAGAGGCTTATTAATGCTGACCCCAATTTGCTTC 600
Db 746 ACGGAAACTAAGGCTTAAACCAAGAGGCTTATTAATGCTGACCCCAATTTGCTTC 600
Qy 601 GGCATCATGAAACATCGGGAAGCGTACCTACGACTATCTTACGCTGATGCTGATGTC 660
Db 806 GGCATCATGAAACATCGGGAAGCGTACCTACGACTATCTTACGCTGATGCTGATGTC 660
Qy 661 TTAAACACGATCAAAATCCCAAGTCTCTAATGCTGACCCCAATTTGCTTC 865
Db 866 TTAAACACGATCAAAATCCCAAGTCTCTAATGCTGACCCCAATTTGCTTC 865
Qy 721 ACTGTGGGCAATTTCTAATTCACCTTTATTCATAAATGTTGGGGAATTTTCAAG 925
Db 926 ACTGTGGGCAATTTCTAATTCACCTTTATTCATAAATGTTGGGGAATTTTCAAG 925
Qy 781 TCCGAGCTGTGAGAAATTAAGCATAGGCTGTCACACCTTCCCTGCTGATCCGATC 840
Db 986 TCCGAGCTGTGAGAAATTAAGCATAGGCTGTCACACCTTCCCTGCTGATCCGATC 840
Qy 841 AAGATGGAGGACTTTGGGGCTTTCAAAGTTCAGACATAGAGCTGATGCTATTTGCTG 900
Db 1046 AAGATGGAGGACTTTGGGGCTTTCAAAGTTCAGACATAGAGCTGATGCTATTTGCTG 900
Qy 901 GAACATTAGCATGATGCTCTAGATGTTGGAACTCTTAAATAATGATGATGCTAT 960
Db 1106 GAACATTAGCATGATGCTCTAGATGTTGGAACTCTTAAATAATGATGATGCTAT 960
Qy 961 ACATGTGTAAAGCTACTAAGACATGAGCCAGGCTGATGAACTCAGCCCTCTCTC 1020
Db 1166 ACATGTGTAAAGCTACTAAGACATGAGCCAGGCTGATGAACTCAGCCCTCTCTC 1020
Qy 1021 TTGAG-CTGTACAGGTTGTATATGTAAGTCCATAGGCTGATGATTCATGCTGA 1079
Db 1226 TTGAGCCTGTACAGGTTGTATATGTAAGTCCATAGGCTGATGATTCATGCTGA 1285
Qy 1080 TTACAAACGCTTTTACAAATTTGTAATGATTTCTAGAAATGGAACAGATGGGAGAG 1139
Db 1286 TTACAAACGCTTTTACAAATTTGTAATGATTTCTAGAAATGGAACAGATGGGAGAG 1139
Qy 1140 TATTCGATGCTTATGAAAACTTACAGGTAGATGAAAGGGGCTCAGCTCTGCG 1199
Db 1346 TATTCGATGCTTATGAAAACTTACAGGTAGATGAAAGGGGCTCAGCTCTGCG 1199
Qy 1200 TCTAACCCCTGGATATGCGCACTGAGAACCTTGAATTAAGAGATGCGATCTATTC 1259
Db 1405 TCTAACCCCTGGATATGCGCACTGAGAACCTTGAATTAAGAGATGCGATCTATTC 1259
Qy 1260 AAAAATGATAGTGTGAGAGGTTAAGTCTTTGAAATGTTACATGCGTGGAGCTG 1319
Db 1465 AATGAAATGATAGTGTGAGAGGTTAAGTCTTTGAAATGTTACATGCGTGGAGCTG 1319
Qy 1320 CAATTAAGTCTTTTCTAATGAGAGAGAAAAATATATATATTTATATATATGCT 1379
Db 1525 CAATTAAGTCTTTTCTAATGAGAGAGAAAAATATATATATTTATATATATGCT 1379
Qy 1380 AAGGTAATATTCAGGTATATGTTTCTGCAAGTTTGTGAAATTAATTTGCTGA 1439
Db 1583 AAGGTAATATTCAGGTATATGTTTCTGCAAGTTTGTGAAATTAATTTGCTGA 1439
Qy 1440 TAGTATTTGATTCAAATTAATTTAAATATGCTGATGCTGATATTTAATTTAAT 1499
Db 1643 TAGTATTTGATTCAAATTAATTTAAATATGCTGATGCTGATATTTAATTTAAT 1499

Qy 1500 GTACAGATGATTTAACTGCTGACCTTTGTAATCCCTGAGAGTACTGATGAAGG 1559
Db 1703 GTACAGATGATTTAACTGCTGACCTTTGTAATCCCTGAGAGTACTGATGAAGG 1559
Qy 1560 GGCAGAAATCTGTTTCTGCTGACACCATGATGATTTATTTATTTTAACTAAT 1619
Db 1763 GGCAGAAATCTGTTTCTGCTGACACCATGATGATTTATTTATTTTAACTAAT 1619
Qy 1620 AGAGCTTCTAG 1630
Db 1823 AGAGCTTCTAG 1833

RESULT 5
US-10-218-547-21
Sequence 21, Application US/10218547
Publication No. US20030100074A1
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Methods And Compositions For Treating Metabolic Bone Diseases
FILE REFERENCE: P3961
CURRENT APPLICATION NUMBER: US/10/218,547
PRIOR FILING DATE: 2002-08-15
PRIOR APPLICATION NUMBER: 60/312,542
PRIOR FILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: 60/330,761
NUMBER OF SEQ ID NOS: 57
SOFTWARE: PatentIn version 3.1
SEQ ID NO 21
LENGTH: 2271
TYPE: DNA
ORGANISM: human
US-10-218-547-21

Query Match Best Local Similarity 57.6%; Score 939.6; DB 14; Length 2271;
Matches 1285; Conservative 0; Mismatches 314; Indels 47; Gaps 11;

Qy 1 CCGGGCTCCACACGAGGGTCCGTCGACCCGCGCTTTCGACCGGCTCGCGCGCG 60
Db 249 CCGGAGCCCGACAGAGGCCCGCTGACAGCCCGCGCGCGCGCGCGCGCGCGCGCG 60
Qy 61 CACCCCGCGCTCCGCTCATGTTCCGCGCTCTGGGGCTGGAGCTGCGCAGGTG 120
Db 306 CCGCGCGCGCTCCGCTCATGTTCCGCGCTCTGGGGCTGGAGCTGCGCAGGTG 120
Qy 121 TCTGAGCATGCTCTGTTCTGTAATCTTGAAGCGAGATGATCTTAAGAAATTCAG 180
Db 366 TCTGAGCATGCTCTGTTCTGTAATCTTGAAGCGAGATGATCTTAAGAAATTCAG 180
Qy 181 AAGACAGCTGCTGTTTATAGATCCTGAGACTGCTGAAGAGAGATTTGCAAG 240
Db 426 AAGATGACCTGATGATTTATAGAAATTTGAGACTGCTGAAGAGATTTGCAAG 240
Qy 241 ACTGACTGTGAGAGTGAAGACAC-----ACTACTACTCTGCGAGAGATGAAG 485
Db 486 ACACACTGTGAGAGTGAAGACAC-----ACTACTACTCTGCGAGAGATGAAG 485
Qy 295 AAGCTTTGAGGGGCGCTGCGAGAGAACTCAACATTTGAGGGCGACAGGCTTCT 354
Db 546 AAGCTTTGAGGGGCGCTGCGAGAGAACTCAACATTTGAGGGCGACAGGCTTCT 354
Qy 335 CAGGAGCTCAGTATGATGAGAGAGTATGATGATGATGATGATGATGATGATGAT 605
Db 606 GAGCAGAGAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 605
Qy 415 AGGCCAGCATTTTGCACACCTGACCATCAATGCTGCGAGCATGCTGCGGTTCCATA 474
Db 666 AGGCCAGCATTTTGCACACCTGACCATCAATGCTGCGAGCATGCTGCGGTTCCATA 474

[illegible]

Db 1781 CTTCGAGCTAAGGAGGGGCAAAAAATGTTCTTCATATCAAAAGCTATATTCTT 1840
 Oy 1602 TATCTCTTTAACTTAATAGAGCTCT 1627
 Db 1841 CGTCTCTTTTAGTTAATAGATTCTT 1866

RESULT 7
US-10-272-411-51
: Sequence 1

Sequence 31, Application US/10272411
Publication No. US20030100068A1
GENERAL INFORMATION:
APPLICANT: Barnes Jewish Hospital
APPLICANT: Lam, Jonathan
APPLICANT: Ross, F. Patrick
APPLICANT: Teitelbaum, Steven
TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
FILE REFERENCE: 60019620-0202
CURRENT APPLICATION NUMBER: US/10/272,411
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: 60/329,393
PRIOR FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.1
SEQ ID NO 51
LENGTH: 2201
TYPE: DNA
ORGANISM: Homo sapiens
US-10-272-411-51

```

Query Match      57.0%; Score 928.6; DB 14; Length 2201;
Best Local Similarity 78.0%; Pred. No. 2,9e-226;
Matches 1285; Conservative 0; Mismatches 314; Indels 48; Gaps 12

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Db 1 CGGAGGCTCCACACAGAGGGTCCGCTGACACCCCGGCTTCTGACACGGGTCCGCGCGCCG 60
 Db 193 CCGAGAGCCCGCACAGAGGGCCCGCTGACCGCCCG---CGCCGCTCGCGCCACACAC 249
 QY 61 CACCCGCGGCTCCCGTCCATGTTCTCTGGCCCTCTGGGGCTGGGACCTGGGCGAGTGG 120
 Db 250 CCCCCGCGGCTCCCGCTCCATGTTGTTGGCCCTCTGGGGCTGGGGCTGGGCGAGTTG 309
 QY 121 TCTGCAGCATCGCTGTTCTCTGTACTTTCGAGCGCAGATGGATCTTAACGAATATCAG 180
 Db 310 TCTGCAGCGCTCGCCCTGTTCTTCTATTTCAGAGCGCGAGATGATCTTAATGAATATCAG 369
 QY 181 AAGACAGCACTACGTGCTTTATAGAACTCTAGACTCCATGAAACGACAGATTTGCAGG 240
 Db 370 AAGATGGCACTACCTGCAATTATAGAAATTTGAGACTCCATGAAATGCAGATTTTCAGG 429
 QY 241 ACTGCATCTGGAGAGTGAAGACAC-----ACTACGTACTCCCTGCAGAGAGATGAAC 294
 Db 430 ACACAACCTGGAGAGTCAAGATACAAAATTAAATCCGATTTCATGTAAGGAATTTAAAC 489
 QY 295 AAGCCTTTCAGGGGGCCGTGCAGAAAGAACTGCAACACATTTGGGGCCACAGCGCTCT 354
 Db 490 AAGCCTTTCAGGAGACTGTGCAAAAAGGAATTAACAACATATGTTGATCAGACACATCA 549
 QY 355 CAGAGACTCAGACTATGATGGAAGGGTCATGTTGGATGTGGCCACGAGGCAAGGCTG 414
 Db 550 GAGCAGAGAAAGGCATGTTGATGAGCTCATGTTGATGTGGCCAAAGAGGACAAGCTTG 609
 QY 415 AGGCCACGCCATTTGCAACACCTCAACATCAATGTCACACATATCCATGGGGTTCACATA 474
 Db 610 AAGGTCAGCCCTTTGGCATCTCACTATTAATGCAACGAGCATCCCATCTGGTTCCCAATA 669
 QY 475 AAGTCACTGTGCTCTTGGTACCAACAGATGAGAGCTGGGCAAGATCTTAACATAGCT 534
 Db 670 AAGTGAATCTGTCTCTTGGTACCAATGATGTGGGGTGGGCAAGATCTCAACATGACTT 729
 QY 535 TAAGCAACGGAAAACTAAGGGTTAACCAAGATGGCTTCTATTACCTGATACGCAACATT 594

Db 730 TTAGCAATGAAAACTATAGTATATCAGATGGCTTTATCTGTATGCCACATTT 789
 QY 595 GCTTGGCATCATGAACATCGGAAAGCTACCTACGATCTATCTTCAGCTGATGTGT 654
 Db 790 GCTTGCACATCATGAACATCGGAAAGCTACCTACGATCTATCTTCAGCTGATGTGT 849
 QY 655 ATGTGCTTAAACACGATCATCAAAATCCCAAGTTCTCATACCTGATGAAGAGGAGACA 714
 Db 850 ACCTCATCAAAACACGATCATCAAAATCCCAAGTTCTCATACCTGATGAAGAGGAGACA 909
 QY 715 CGAAAAAGCTGGGCAATCTGATTCACCTTTTATTCATTAATGTGGGGGATTT 774
 Db 910 CCAAGTATTTGGTCAGGAAATCTGATTCATTTATTCATTAATGTGGGGGATTT 969
 QY 775 TCAGACTCCGAGCTGGTGAAGAAATAGATCAGGTGCCAACCTTCCTGCGGATC 834
 Db 970 TTAAGTTACGGTCTGGAGAGAAATCAGATCGAGTCTCCACCCCTCTCTACGATC 1029
 QY 835 CGGATCAGATGCGAGCTACTTGGGCTTTCAAGTTCCAGACATGAGACTCAT 894
 Db 1030 CGGATCAGATGCGAGCTACTTGGGCTTTCAAGTTCCAGACATGAGACTCAT 1089
 QY 895 TTCGTGGAACATTTACATGATGTCTGATGTTTGAAGTCTTAAAT-----AT 947
 Db 1090 TTTTGGAGTGT---ATGATTTCTGATGTTTGAAGTCTTAAAT-----AT 1146
 QY 948 GGATGATGCTATACATGCTATAGACTACTAGAGACATGGCCCGCTGATGAATC 1007
 Db 1147 GAAATGATATATAGTGTGTGAGACTACTAGAGAGATGGCCCGCTGATGAATC 1206
 QY 1008 ACAGCCCTCTCTCTGAGCCCTGACAGTTGTATATGTAAGTCCA-TAGTGATGTT 1066
 Db 1207 AGATTCATGCTCTGACCTTGTAGAGAACAGCGGTATTTACCTGCCAGGAGATGTT 1266
 QY 1067 AGATTCATGCTG-ATTACACACCGTTTACATTTTGTATGATTTCTAGAGATGAC 1125
 Db 1267 AGACTCATGTTGTGTACACATGTTTTTAAATTTGTATGATTTCTAGAGATGAC 1326
 QY 1126 CAGATTTGGAGAGATTTCCGATGCTATGAAAAACTTACCTGAGCTATGAGAGGGG 1185
 Db 1327 CAGATTTGGAGAGATTTCCGATGCTATGAAAAACTTACCTGAGCTATGAGAGGGG 1385
 QY 1186 TCACAGTCTCTGGGCTCAACCCCTGACATGTCGCACTGAGAACTTGAATTAAGAGA 1245
 Db 1386 -----TTGCTCCCTGGTCAATGTCGCCCTTCGAGC-TGAAGTGGAGAGG 1429
 QY 1246 TCCCATGCTATTCGAAAGAAATGATAGTGAAGGTTAAGTTCTTTGAATGTTACAT 1305
 Db 1430 TGTCACTCT-AGGCAATTTGAGAGATCTGAGAGGGCAAAATTTCTTGAATGTTACAT 1488
 QY 1306 TGGGCTGGGACCTGCAATTAAGTTCTTTTCTATGAGAGAAAAATATATGTTT 1365
 Db 1489 CATGCTGGAACCTGCAAAATAAC--TTTCTATGAGAGAG-AAAATATATGTTT 1544
 QY 1366 TTTATATATGCTTAAAGTATATTTCAAGGTATGTTTCTGCAAGTTTGTAA 1425
 Db 1545 TTTATATATATCTAAAGTATATTTCAAGGTATGTTTCTGCAAGTTTGTAA 1604
 QY 1426 TTTATATTTGCTATAGTATTTGATTCAAAATATTTAAATGTCATCTGACATAT 1485
 Db 1605 TTTATATTTGCTATAGTATTTGATTCAAAATATTTAAATGTCATCTGACATAT 1664
 QY 1486 TTAATGTTTAAATGATAGATGTTTAACTGTGACCTTGTAAATCCCTG-----A 1540
 Db 1665 TTAATGTTTAAATGATAGATGTTTAACTGTGACCTTGTAAATCCCTG-----A 1724
 QY 1541 AGTCTGCTAGCTAAGGGGAGAAATACCTTCTGTCAGCAGATGATGTTTCT 1600
 Db 1725 ACTTGCACCTAAGAGGGGAAAAATGTTTCTTCTATATCAAAATGAGATATTTCT 1784
 QY 1501 TTAATCTTTTAACTAATAGATGTT 1627
 Db 1785 TCTTTCTTTTAAATGATTTT 1811

Query Match 57.0%; Score 928.6; DB 14; Length 2201;
 Best Local Similarity 78.0%; Pred. No. 2,9e-226;
 Matches 1285; Conservative 0; Mismatches 314; Indels 48; Gaps 12;
 US-10-272-328A-51
 RESULT 8
 ; Sequence 51, Application US/10272328A
 ; Publication No. US20030109444A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Barnes Jewish Hospital
 ; APPLICANT: Ross, Jonathan
 ; APPLICANT: Ross, F. Patrick
 ; APPLICANT: Teitelbaum, Steven
 ; TITLE OR INVENTION: RANKL, MIMICS AND USES THEREOF
 ; FILE REFERENCE: 60019620-0206
 ; CURRENT APPLICATION NUMBER: US/10/272,328A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: 60/329,393
 ; NUMBER OF SEQ ID NOS: 51
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 51
 ; LENGTH: 2201
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-272-328A-51
 1 CCGGGGCTCCACAGAGGGTCCGCTGCACCCCGGCTTCTGACCGGCTCCGCGCGC 60
 Db 193 CCGGAGCCCGGACAGAGGGGCCCGCTGACCGCGCGC---CGCCGCTCGCGCGCACG 249
 QY 61 CACCGCGCGCTCCCGCTCATATGTTCTCGGCTCTGAGGCTGGGACTGGCCAGGTG 120
 Db 250 CCGCGCGCGCTCCCGCTCATATGTTCTCGGCTCTGAGGCTGGGACTGGCCAGGTG 309
 QY 121 TCTGAGAGTGGCTCTGCTCTGCTGACTTTCGAGGCGAGATGATCTTAACAATAC 180
 Db 310 TCTGAGAGTGGCTCTGCTCTGCTGACTTTCGAGGCGAGATGATCTTAACAATAC 369
 QY 181 AAGACGACCTCAGCTGTTTATGATCTGAGAGCTCATGAAAAAGCGAGATTTCAAG 240
 Db 370 AAGATGCGACCTCAGCTGTTTATGATCTGAGAGCTCATGAAAAAGCGAGATTTCAAG 429
 QY 241 ACTGAGCTCGAGAGCTGAAGACAC-----ACTACTGACTCTGACAGAGATGAAC 294
 Db 430 ACACACTCTGGAGAGTCAAGATACAAATTAATACCTGATCTATGAGAGATTAAC 489
 QY 295 AAGCTTTCAAGGGGCGCTGACAGAGAACTGCAACATTTGGGGCCACAGCGCTTCT 354
 Db 490 AAGCTTTCAAGAGAGCTGTCAAAAGGAATTAACATATGTTGGATCCAGACATCA 549
 QY 355 CAGAGCTCAGCTATGATGAGAGGCTCATGTTGATGTGGCCGAGGAGGAGGAGCTG 414
 Db 550 GACCAAGAAAGAGATGAGGATGGCTCATGTTGATGTGGCCGAGGAGGAGGAGCTG 609
 QY 415 AGGCCAGCATTTGACACCTTCACATCATATGCTGCCAGATCCCATCGGTTCCATA 474
 Db 610 AAGCTAAGCTTTTGTCTATCTCATATTAATGACACGACATCCATCGGTTCCATA 669
 QY 475 AAGTCACTGTCTCTTGTGACAGAGATGAGGCTGGGCGCAAGATCTCTAATAGCT 534
 Db 670 AAGTCACTGTCTCTTGTGACAGAGATGAGGCTGGGCGCAAGATCTCTAATAGCT 729
 QY 535 TAAGCAAGCAAAATTAAGGTTAACAAGATGCTTATTAATCTGAGCCCAACATTT 594
 Db 730 TTAGCAATGAAATTAATAGTTAATAGATGCTTTTATTAATCTGATGCCAATTT 789
 QY 595 GCTTTCGATCATGAACATCGGAGAGCTGAGAGATCTTACGATGATGATG 654
 Db 790 GCTTTCGATCATGAACATCGGAGAGCTGAGAGATCTTACGATGATGATG 849

QY 655 ATGCTGTTAAACACGATCAAAATCCCAAGTCTGATTAACCTGATGAAAGGAGGACCA 714
 DB 850 ACGTCACTAAACACGATCAAAATCCCAAGTCTGATTAACCTGATGAAAGGAGGACCA 909
 QY 715 CGAAAACCTGCTGGGCAATTCGAAATTCACATTTTATTCATTAAGAGTGGGGGATTT 774
 DB 910 CCAAGTATGCTGAGGGAATTCGAAATTCACATTTTATTCATTAAGAGTGGGGGATTT 969
 QY 775 TCAAGCTCCGAGCTGGTGAAGAAATTAAGCAATGAGGTGCAACCCCTCCCTGATC 834
 DB 970 TTAAGTTCAGCTCTGGAGAGAAATTCAGATCGAGGTCTCCACCCCTCTTACGTGATC 1029
 QY 835 CGGATCAAGATGCACTACTTTGGGCTTCAAGAGTTCAGACATPAGATGAGACTCAT 894
 DB 1030 CGGATCAAGATGCACTACTTTGGGCTTCAAGAGTTCAGACATPAGATGAGACTCAT 1089
 QY 895 TTCGTGGAACATTCGATGATGATGCTTGAATGTTGAAAATCTTCTTAAAAA-----AT 947
 DB 1090 TTTTGGAGTGT---ATGATTTCCGATGTTGGAAAATCTTCTTAAAAAAGCAACCA 1146
 QY 948 GGATGATGCTATTAACATGATGTAAGACTACTAAGACATGCGCCAGGTGATGAACATC 1007
 DB 1147 GAAAGATGATATAGGTGTGAGACTACTAAGAGGATGGCCCAACGATACAGACTC 1206
 QY 1008 ACAAGCCTCTCTGAGCTGTAAGGCTGTGATATGTAAGTCCA-TAGGTATGTT 1066
 DB 1207 AGATATCATGCTCTTACCTTTAGAGAACACGCGATTTTACCTGCTGAGAGATGTT 1266
 QY 1207 AGATATCATGCTG-ATTACACACAGGTTTACATTTTGAATGATTTCTAGATTAAGC 1125
 DB 1267 AGATATCATGCTGTTGTTACACAAATGTTTAAATTTGTAATGAAATCTTAAATTAAC 1326
 QY 1126 CAGATGAGAGAGATATTCGATGCTTATGAAAATTTACAGTGAAGCTATGGAAGGGG 1185
 DB 1327 CAGATGAGAGATATTCGATGCTTATGAAAATTTACAGTGAAGCTATGGAAGGGG- 1385
 QY 1186 TCACAGTCTCTGGGTAAACCCCTGACATGTCACATGAGAACCTTGAATTAAGAGA 1245
 DB 1386 -----TTGGTCCCTGCTGATGTCGCCCTTCGACG-TGAAGTGGAGAGG 1429
 QY 1246 TGCCATGCTCATTAAGAAATGATAGTGAAGGTTAAAGTCTTGTGAATGTTACAT 1305
 DB 1430 TGTCACT-AGCGCAATTAAGAAATGATAGTGAAGGTTAAAGTCTTGTGAATGTTACAT 1488
 QY 1306 TCGCTGGAGACCTGCAAAATAGTCTTTTCTATGAGAGAGAAATTAATATGATTT 1365
 DB 1489 CATGCTGGAACTGCAAAATATAC---TTTCTTAATGAGAGAG-AAAATATATGATTT 1544
 QY 1366 TTAATATATGCTAAAGTATATTTCAAGGTAAATGTTTCTGCAAGTTTGTAA 1425
 DB 1545 TTTATATATATCTAAAGTATATTTCAAGGTAAATGTTTCTGCAAGTTTGTAA 1604
 QY 1426 TTAATATGCTAAAGTATATTTCAAGGTAAATGTTTCTGCAAGTTTGTAA 1485
 DB 1605 TTAATATGCTAAAGTATATTTCAAGGTAAATGTTTCTGCAAGTTTGTAA 1664
 QY 1486 TTAATATGCTAAAGTATATTTCAAGGTAAATGTTTCTGCAAGTTTGTAA 1540
 DB 1665 TTAATATGCTAAAGTATATTTCAAGGTAAATGTTTCTGCAAGTTTGTAA 1724
 QY 1541 AGTACTGTAAGGAGGAGAGAAATGCTTTCTGGTGAACCAATGATTTATTTCT 1600
 DB 1725 ACTTCACTGAAGGAGGAGAGAAATGCTTTCTGGTGAACCAATGATTTATTTCT 1784
 QY 1601 TTATCTTTTAACTTAATAGATCTT 1627
 DB 1785 TCGTCTTTTAAAGTAAATGATTTT 1811

RESULT 9
 US-10-105-057-1
 ; Sequence 1, Application US/10105057
 ; Publication No. US20030013651A1

GENERAL INFORMATION:
 APPLICANT: Barnes-Jewish Hospital, d/b/a The Jewish Hospital of St. Louis
 TITLE OF INVENTION: STIMULATION OF OSTEOGENESIS USING RANK LIGAND FUSION PROTEINS
 FILE REFERENCE: BUCH 10054.1
 CURRENT APPLICATION NUMBER: US/10/105,057
 PRIOR FILING DATE: 2002-03-22
 PRIOR APPLICATION NUMBER: US 60/277,855
 NUMBER OF SEQ ID NOS: 6
 SOFTWARE: Patentin Version 3.1
 SEQ ID NO 1:
 LENGTH: 951
 TYPE: DNA
 ORGANISM: Mus musculus
 US-10-105-057-1

Query Match: 54.38; Score 885.4; DB 14; Length 951;
 Best Local Similarity 99.9%; Pred. No. 1.88-215;
 Matches 886; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCGGCTCCACACAGAGGTCGCGCTGCAACCCGCGCTTGTGACCGGCTCCGCGCCG 60
 DB 65 CCGGCTCCACACAGAGGTCGCGCTGCAACCCGCGCTTGTGACCGGCTCCGCGCCG 124
 QY 61 CACCGCGCGCTCCGCTCCATGTTCTCTGGCCCTGCGGCTGGAGTGGCCAGGTG 120
 DB 125 CACCGCGCGCTCCGCTCCATGTTCTCTGGCCCTGCGGCTGGAGTGGCCAGGTG 184
 QY 121 TCTGACATGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
 DB 185 TCTGACATGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 244
 QY 181 AAGACAGCTGCTGCTTATTAAGAACTGAGACTCCATGAAACGAGATTTGACG 240
 DB 245 AAGACAGCTGCTGCTTATTAAGAACTGAGACTCCATGAAACGAGATTTGACG 304
 QY 241 ACTGACTGTGAGAGTGAAGACACACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
 DB 305 ACTGACTGTGAGAGTGAAGACACACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 364
 QY 301 TTGAGGCGCGCTGCGAGAGAACTGCAACATGTTGGGCGCAGAGCTTCTCAGAG 360
 DB 365 TTGAGGCGCGCTGCGAGAGAACTGCAACATGTTGGGCGCAGAGCTTCTCAGAG 424
 QY 361 CTCACGCTATGATGAAGGCTCATGTTGATGTTGGCCAGAGGAAAGCTGAGGCC 420
 DB 425 CTCACGCTATGATGAAGGCTCATGTTGATGTTGGCCAGAGGAAAGCTGAGGCC 484
 QY 421 AGCCATTTGCACTGCTACCATCAATGCTGCCAGCATCCATCGGTTCCCATTAAGTCA 480
 DB 485 AGCCATTTGCACTGCTACCATCAATGCTGCCAGCATCCATCGGTTCCCATTAAGTCA 544
 QY 481 CTCGTCTCTTGTGTCACAGATGCAAGGCTGGGCCAAGATCTTAACATGAGTTAAGCA 540
 DB 545 CTCGTCTCTTGTGTCACAGATGCAAGGCTGGGCCAAGATCTTAACATGAGTTAAGCA 604
 QY 541 ACGGAAATTAAGGTTAAACCAAGATGCTTATTAAGTCTTACGCAACATTTGCTTC 600
 DB 605 ACGGAAATTAAGGTTAAACCAAGATGCTTATTAAGTCTTACGCAACATTTGCTTC 664
 QY 601 GGCATCATGAACATCGGGAAGCGTACTACAGATCTTCACTGATGATGATG 660
 DB 665 GGCATCATGAACATCGGGAAGCGTACTACAGATCTTCACTGATGATGATG 724
 QY 661 TTAACCAAGCATCAAAATCCCAAGTTCTCATTAACATGATGAAGAGAGAGCAAGAAA 720
 DB 725 TTAACCAAGCATCAAAATCCCAAGTTCTCATTAACATGATGAAGAGAGAGCAAGAAA 784
 QY 721 ACTGCTGGGCAATTCGAAATTCATCTTTATTTCAATTAATGTTGGGGAATTTTCAAGC 780
 DB 785 ACTGCTGGGCAATTCGAAATTCATCTTTATTTCAATTAATGTTGGGGAATTTTCAAGC 844
 QY 781 TCCGAGCTGTTGAAGAAATTAAGATTCAGGTGTCACACCTTCCTGCTGATCCGGATC 840

Db 845 TCCAGCTGTGTAAGAAATTAGCATTCAGTGTCCAACTCCCTGCGATCCGATC 904
QY 841 AAGATCGAGCTACTTGGGGCTTCAAGATTCAGACATAGACTGA 887
Db 905 AAGATCGAGCTACTTGGGGCTTCAAGATTCAGACATAGACTGA 951
RESULT 10
US-10-017-910-1
Sequence 1, Application US/10017910
Publication No. US20020159970A1
GENERAL INFORMATION:
APPLICANT: Choi, Yongwon
Mong, Brian
Josien, Regis
Steinman, Ralph
TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY
INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING SAM
METHODS OF USE THEREOF
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue, 4th floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/017,910
FILING DATE: 14-Dec-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/447,035
FILING DATE: 1999-11-22
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-200
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1823 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 1..738
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-017-910-1
Query Match 51.18; Score 832.8; DB 13; Length 1823;
Best Local Similarity 77.88; Pred. No. 7.2e-202;
Matches 1159; Conservative 0; Mismatches 287; Indels 44; Gaps 11;
QY 156 CAGATGATCTTAACAGATATCAGAGACGACGCTTATATAGATCCGAGA 215
Db 1 CAGATGATCTTAACAGATATCAGAGATGACGACGCTTATATAGATCCGAGA 60
QY 215 CTCATTAAGAACGACGATTTGACGAGCTGCTGTGAGAGTGAAGACAC-----ACTA 269

Db 61 CTCATTAAGAACGATTTTCAAGACACAACTCTGGAGATCAATATCAAAATTAATA 120
QY 270 CTTGACTCTCTGAGGAGATGAAGACAAAGCTTTGAGGGGCGCTGAGAGAGACTGCNA 329
Db 121 CTTGATATCTATAGAGAAATTAACAGAGCTTTCAAGAGAGCTGTGCAAAAGATTAACA 180
QY 330 CACATTTGGGGCCACAGGCTTCTCAGAGCTCCAGTATATGAGAGGCTCATAGTTG 389
Db 181 CATATGTTGGATCAGACACATCAGACAGAGAAAGCATGTGTGATGCTCATATGTTA 240
QY 390 GATGTGGCCAGGAGGAGAGAGGCTGAGGCGCCAGCTTTGACACCTGACATCAATGCT 449
Db 241 GATGTGGCCAGGAGGAGAGAGGCTGAGGCTGAGGCTTTGCTCATCTCATATTAATGCC 300
QY 450 GCCAGATCCCATCGGGTTCCCATTAAGTCACTGTCTCTTGGTACGAGATCGAGGC 509
Db 301 ACCGAGATCCCATCGGTGTTCCCATTAAGTCACTGTCTCTTGGTACGAGATCGAGGC 360
QY 510 TGGGCCAAGATCTTAACATGACGCTTAAGACAGGAAACTAAGGTTAACCAGATGCG 569
Db 361 TGGGGTAAGATCTTCAACATGACGCTTTAGCATGAGAACTAATAGTTAATCAGATGCC 420
QY 570 TTCTATTAAGCTGTACGCCAATTTGCTTGGGATCATGAACATGGGAGGATGCT 629
Db 421 TTTTATTAAGCTGTATGCCAATTTGCTTGGGATCATGAACATGGGAGGATGCT 480
QY 630 ACAGACTATCTTACCTATGCTGTATGTCTTAAACACAGATCAAAATCCCAATGCT 689
Db 481 ACAGACTATCTTACCTATGCTGTATGTCTTAAACACAGATCAAAATCCCAATGCT 540
QY 690 CATAACTGATGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 749
Db 541 CATACCTGATGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
QY 750 TATTCATTAATGTTGGGGGATTTTCAAGCTCCGAGCTGTGAGAAATTAACATTCAG 809
Db 601 TATTCATTAATGTTGGGGGATTTTCAAGCTCCGAGCTGTGAGAAATTAACATTCAG 720
QY 870 GTTCAGACATACAGCTGACGCTATTTGCTGGAACATTAAGCATGATGCTAGATGTT 929
Db 721 GTTCAGACATTAAGCTGATGAGGCTTGTGAGGCTTGTGAGGCTTGTGAGGCTTGT 777
QY 930 GGAACCTTTTAAAAA-----ATGATGATGCTATACATGCTGATGAGTGAAG 982
Db 778 GGAACATTTTAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 837
QY 983 ACATGGCCCAAGGCTGATGAACACTCACAGCTCTCTTGGAGCTGTACAGGTTGTGA 1042
Db 838 GCATGGCCCAAGG-GTACAGGACTGATGATCATCTCTTACCTGTGAGAGAACAGCCG 896
QY 1043 TATGTAAGTCCATAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 1101
Db 897 TATTTACAGCCAGTGGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 956
QY 1102 TGTAAATGATTTCTGTAATTTGACCAAGATTTGGAGAGTATTCAGATCTTATGA 1161
Db 957 TGTAAATGATTTCTGTAATTTGACCAAGATTTGGAGAGTATTCAGATCTTATGA 1016
QY 1162 TTACAGCTGATGATGAAGAGGCTGACAGTCTGAGGCTTAACCCCTGACATGCTCA 1221
Db 1017 CTGATGATGGGCTATGGAGG-----TTGATCCCTGGCTATGATGCTCC 1060
QY 1222 CTGAAACCTGGAATTAAGAGATGCCATGCTTCAAGAAAGATATAGTGAAGG 1281
Db 1061 CTTCGACG-TCGAAGTGAAGGCTGCTACT-AGGCCAATTAAGATCATCTGAAGG 1118
QY 1282 TTAAGTCTTTGAATGTTTACATTTGGGAGGAGCTGCAATTAAGTCTTTTCTTA 1341

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Query Match      51.18; Score 832.8; DB 14; Length 1823;
Best Local Similarity 77.88; Pred. No. 7, 2e-202;
Matches 1159; Conservative 0; Mismatches 287; Indels 44; Gaps 11.

Y      156  CAGATGATCCCTACAGAAATATCAGAAAGCAGACACTCCTGTTTATAGAACTCTGAGA 215
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
b      1  CAGATGATCCCTATATGAAATATCAGAAAGATGACACTCCTGATTTATAGAAATTTGAGA 60
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

Y      216  CTCATGAAAGCAGCAATTTGCAGAGCTGACTGCTGTGGAGAGAGACAC-----ACTA 269
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
b      61  CTCATGAAAGATGCGAGATTTTCAAGACACAACTCTGTGGAGAGTCAAGATCAAAATTAATA 120
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

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[illegible]

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RESULT 12
US-10-272-328A-1
: Sequence 1, Application US/10272328A
: Publication NO. US20030109444A1
GENERAL INFORMATION:
APPLICANT: Barnes Jewish Hospital
APPLICANT: Lam, Jonathan
APPLICANT: Ross, F. Patrick
APPLICANT: Tettebaum, Steven
TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
FILE REFERENCE: 60019620-0206
CURRENT APPLICATION NUMBER: US/10/272,328A
CURRENT FILING DATE: 2003-01-24
PRIOR APPLICATION NUMBER: 60/3329,393
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 1

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1  SEQ ID NO 1
2  LENGTH: 1823
3  TYPE: DNA
4  ORGANISM: Homo sapiens
5  PUBLICATION INFORMATION:
6  DATABASE ACCESSION NUMBER: NCBI/AF013171
7  DATABASE ENTRY DATE: 1997-09-19
8  RELEVANT RESIDUES: (1)..(1823)
9  PUBLICATION INFORMATION:
10 DATABASE ACCESSION NUMBER: NCBI/NM_033012.2
11 DATABASE ENTRY DATE: 2002-07-31
12 RELEVANT RESIDUES: (1)..(1823)
13 PUBLICATION INFORMATION:
14 DATABASE ACCESSION NUMBER: NCBI/AF053712.1
15 DATABASE ENTRY DATE: 1998-05-09
16 RELEVANT RESIDUES: (1)..(1823)
17 PUBLICATION INFORMATION:
18 DATABASE ACCESSION NUMBER: NCBI/AF019047.1
19 DATABASE ENTRY DATE: 1997-11-22
20 RELEVANT RESIDUES: (1)..(1823)
21 US-10-272-328A-1

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	Query Match	51.18;	Score 832.8;	DB 14;	Length 1823;
	Best Local Similarity	77.88;	Pred. No. 7.2e-202;		
	Matches 1159;	Conservative	0;	Mismatches 287;	Indels 44; Gaps 11
OY	156	CAGATGATCTCTACAGAAATATCAGAGACGCACTCACTTATATAGAAATCTGAA	215		
Db	1	CAGATGATCTCTAAATAGAAATATCAGAGATGCGCACTACTGCAATTTATGAAATTTTGAA	60		
OY	216	CTCCATGAAATCGCATGATTTGCAGAGACTCGACTCTGTGAGAGTAAAGAC-----ACTA	269		
Db	51	CTCCATGAAATCGCATGATTTGCAGAGACACAACTGTGAGAGTCAAGATACAAATTAATA	120		
OY	270	CCTGACTCTCTCAGAGAGATGAAACAAAGCCTTTTCAGGGGCGGTGCAAGAGAACTGCCA	329		

[illegible]

Db 1176 TGAGAGAG-AAAATATATATATTTTATATATATCTAAAGTTATATTCAGATGTAA 1234
Qy 1402 GTTTCGTGGAAGTTTGTAAATATATATTTGTCTATAGTATTTGATCAAAATATT 1461
Db 1235 GTTTCGTGGAAGTTTGTAAATATATTTGTCTATAGTATTTGATCAAAATATT 1294
Qy 1462 AAAATGTCTGATGTCATATATTTTAAATGTAAGATATTTTAACTGCTG 1521
Db 1295 AAAATGTCTGATGTCATATATTTTAAATGTAAGATATTTTAACTGCTG 1354
Qy 1522 CACTTGTAAATCCCG-AGGTACTGTAGTAAAGGGGAGCAATAGTCTG 1577
Db 1355 CACTTGTAAATCCCGAGGAGAACTGTAGCAAGAGGAGGAAAAATGTCTG 1414
Qy 1578 GTGACCAATAGTATTTTCTTTTAACTTAACTTAACTGCT 1627
Db 1415 AATATCAATGCACTATATTTCTGTTCTTTTAAATATAGATTTT 1464

RESULT 13
US-69-871-856-12
Sequence 12, Application US/09871856
Patent No. US20020081720A1
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
Galibert, Laurent
Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSER: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/871,856
FILING DATE: 31-MAY-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/996,139
FILING DATE: <unknown>
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 954 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
LIBRARY: <unknown>
CLONE: huBANK1 (full length)

FEATURE:
NAME/KEY: CDS
LOCATION: 1..951
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-871-856-12

Query Match
Best Local Similarity 82.28; Score 615; DB 9; Length 954;
Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;

Qy 1 CCGGCGTCCACAGAGAGGTCGCTGACCGCGCGCTTGTGACCGGCTCCGCGCGC 60
Db 65 CCGGAGCCCGGACAGAGAGGCGCCCTGACGCGCCG-CCGCGCTGCGCGCACG 121
Qy 61 CACCGCGCGCGCTCCGCTCCATGTCCTGCGCTCTGCGGAGTGGAGTGGCCAGTGG 120
Db 122 CCGCGCGCGCTCCGCTCCATGTCCTGCGGCGCTCTGCGGAGTGGAGTGGCCAGTGG 181
Qy 121 TGTGACGATGCTGTGCTTCTGATCTTGTGAGCGGAGATGATGCTAAGAAATGAG 180
Db 182 TGTGACGATGCTGTGCTTCTGATCTTGTGAGCGGAGATGATGCTAAGAAATGAG 241
Qy 181 AAGACAGCACTACATGCTTTTATAGAAATCTGAGACTCATGAAACAGATTTGACG 240
Db 242 AAGATGCACTCATGCTATTTATAGAAATTTGAGACTCATGAAACAGATTTTCAAG 301
Qy 241 ACTGCACTGTGAGAGTGAAGAC-ACACTGCTGCTGCGAGAGATGAAC 294
Db 302 ACACAACTGTGAGAGTGAAGATGAACAAATTAATACGATTCATGTAAGAAATTAAC 361
Qy 295 AAGCTTTGAGGGGGCGGTGAGAGAGAAAGTGAACATGTTGGGCGCACAGGCTTCT 354
Db 362 AGGCTTTGAGAGAGTGTGCAAAAGAAATTAACAAATGTTGATGATCAAGCAATCA 421
Qy 355 CAGAGCTCAGCTATGATGAGAGGCTCATGTTGATGATGATGATGATGATGATGAT 414
Db 422 GAGCAGAGAAAGCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 481
Qy 415 AAGCCAGCAGCTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 474
Db 482 AAGCTCAGCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 541
Qy 475 AAGTCACTGTGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 534
Db 542 AAGTCACTGTGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 601
Qy 535 TAAAGCAAGGAAAGTAAAGGCTTAACCAAGATGCTTCTATACCTGATGAGCAATTT 594
Db 602 TTAAGCAAGGAAAGTAAAGGCTTAAATCAAGATGCTTCTATACCTGATGAGCAATTT 661
Qy 595 GCTTTGGCATCATGAACATCGGAGAGCTACCTACAGACTATCTTCAAGTATGCTGT 654
Db 662 GCTTTGGCATCATGAACATCGGAGAGCTACCTACAGACTATCTTCAAGTATGCTGT 721
Qy 655 ATGTGCTTAAAGCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 714
Db 722 ACGTCACTAAAGCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 781
Qy 715 GGAAGAACTGTGCGGCAATTCGAATTCACCTTATTCATTAATGTTGGGGATTTT 774
Db 782 CCAAGTATGCTAGGGAATTCGAATTCATTTATTCATTAATGTTGGGGATTTT 841
Qy 775 TCAAGCTCCAGAGTGGGAAAGTAAAGTATGATGATGATGATGATGATGATGATGAT 834
Db 842 TTAAGTACAGTGTGAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGAT 901
Qy 835 CGGATCAAGATGCGAGCTATTTGGGGCTTCAAAATTCAGAGCATAGACTGA 887
Db 902 CGGATCAAGATGCGAGCTATTTGGGGCTTCAAAATTCAGAGCATAGACTGA 954

RESULT 14
US-09-877-650-12

Sequence 12, Application us/09877650
 Patent No. US20020169117A1
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 Galibert, Laurent
 Maraskovsky, Eugene
 TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: Apple Macintosh
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 FILING DATE: 08-Jun-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/995,659
 FILING DATE: 1997-12-22
 APPLICATION NUMBER: USSN 08/813,509
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: USSN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2852-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 954 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 IMMEDIATE SOURCE:
 LIBRARY: <unknown>
 CLONE: hURANKL (full length)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..951
 SEQUENCE DESCRIPTION: SEQ ID NO: 12:
 US-09-877-650-12

Query Match 37.7% Score 615; DB 10: Length 954;
 Best Local Similarity 82.2% Pred. No. 1.9e-146;
 Matches 734; Conservative 0; Mismatches 150; Indels 9; Gaps 2;

1 CCGCGGTCCACAGAGAGGCTGACACCCCGGCTTCTGCACCGGCTCGGGCCCGC 60
 65 CCGAGAGCCCGCCACAGAGAGGCGCCCTTCACCCCGCCG---CGCGGCTCGCGCCACAC 121
 61 CACCGCGCGCTCCCGCTCATGTCTGCGCCCTCTGCGGCTGGAGACTGGCCAGAGTG 120
 122 CCGCGCGCGCTCCCGCTCATGTCTGCGCCCTCTGCGGCTGGAGACTGGCCAGAGTG 181
 121 TCTGCAGCATCGCTGCTTCTCTACTTTGAGAGCGAGATGATCTTAACAAATATAG 180
 182 TCTGCAGCATCGCTGCTTCTCTACTTTGAGAGCGAGATGATCTTAACAAATATAG 241

181 AAGACAGCATCTACTGCTTTTATAGATCCTGAGACTCCATGCAAAACGAGATTTCAGG 240
 242 AAGATGCACTACATGCTATTTATAGATTTTGGACTCCATGCAAAATGAGATTTTCAAG 301
 241 ACTGACTCTGAGAGTGAAGACAC-----ACTAGCTACTCTCTGCGAGAGATGAAG 294
 302 ACACAACTCTGAGAGTCAAGATCAAAATTAATACCTGATCATGTAGAGAAATTAAC 361
 295 AAGCTTTCAGGGGCGCGTGCAGAGAACTGCAACATTTGGGGCCACAGCGCTCT 354
 362 AAGCTTTCAGAGAGCTGTGCAAAAGAAATTCACATATGTTGGATCAGCAGCATCA 421
 355 CAGAGCTCAGCTATGATGAGAGCTCATGTTGATGTGGCCAGAGCAAGCCTG 414
 422 GAGCAGAGAAAGAGTGTGATGCTGATGATGATGATGATGATGATGATGATGATGAT 481
 415 AAGCCAGCATTTTCAACACTGACCATCAATATGCTGCGAGACTCCATCGGTTCCATA 474
 482 AAGCTCAGCTTTTCTCATCTCATATTAATGACAGCATCCATCTGTTCCATA 541
 475 AAGTCACTCTGCTCTTGTGTACAGCATGAGCTGGCCAAAGATCTTAACATGAGCT 534
 542 AAGTCACTCTGCTCTTGTGTACAGCATGAGCTGGCCAAAGATCTTCACATGAGCT 601
 535 TAAGCAAGGAAATCAAGGTTTACCAAGATGCTTCTTACCTGTACGCCCAATTT 594
 602 TTAGCAATGAAATCAATAGTTAATCAGATGCTTTTATACCTGTATGCCCAATTT 661
 595 GCTTTGGCATGATGAACATCCGAAAGCTGATCAACATCTTCACTGATGATGAT 654
 662 GCTTTGACATCATGAATCACTGAGAGACTACTACAGATCTTCACTGAATGATGAT 721
 655 ATGCTGTTAAACAGATCAAAATCCCAAGTTCTATACCTGATGAAGAGAGGAGACA 714
 722 ACGTCACTAAACAGATCAAAATCCCAAGTTCTATACCTGATGAAGAGAGGAGACA 781
 715 CGAATAAGTGTGGGCAATTCGAATTCACCTTTATTCATTAATTTGGGAGATTT 774
 782 CCAAGTATGCTGAGGAAATTCGAATTCATTTATTCATTAATTCGTTGATTT 841
 775 TCAAGCTCGAGGTGTAAGAAATTAAGATTCAGTGTCCAACTTCCTGCTGATG 834
 842 TTAAGTATGCTGAGGAAATTCAGATTCAGGCTCCAACTTCCTGCTGATG 901
 835 CGATCAAGATGCAAGTCTTGGGCTTCAAGGTTCAAGGATAGATGATGA 887
 902 CGATCAGATGCAACATATCTTGGGCTTTAAAGTTCAAGATATGATGA 954

RESULT 15
 US-09-791-153A-75
 Sequence 75, Application US/09791153A
 Publication No. US2003010378A1
 GENERAL INFORMATION:
 APPLICANT: Deshpande, Rajendra
 Applicant: Hiltz, Anna
 Applicant: Boyle, William
 Applicant: Sullivan, John
 TITLE OF INVENTION: SELECTIVE BINDING AGENTS OF OSTEOCALCIN BINDING PROTEIN
 FILE REFERENCE: A-633A
 CURRENT APPLICATION NUMBER: US/09/791,153A
 PRIOR FILING DATE: 2001-07-17
 PRIOR APPLICATION NUMBER: 09/511,139
 NUMBER OF SEQ ID NOS: 154
 SOFTWARE: Patent version 3.0
 SEQ ID NO 75
 LENGTH: 522
 TYPE: DNA
 ORGANISM: Mus musculus
 FEATURE:
 NAME/KEY: CDS

LOCATION: (4)..(513)
US-09-791-153A-75

Query Match	28.6%	Score 466;	DB 11;	Length 522;
Best-Local Similarity	96.0%;	Pred. No. 1.4e-108;		
Matches 478;	Conservative	0;	Mismatches 20;	Indels 0;
				Gaps 0

QY	390	GATGATGGCCGACGAGGACGACCTGAGGCCACAGCATTTGGACACCTCACCCTCAATGCT	4439
	11		
Db	19	GACGATGACAGAAAGCTTAAAGCTCGAGGCCACAGCATTTGCACACCTCACCCTCAATGCT	78
QY	450	GCCAGCATCCCATTCGGGTTCCCATAAAGTCACCTGTCTCTTGGTACCAAGATCGAGGC	509
	11		
Db	79	GCCAGCATCCCATTCGGGTTCCCATAAAGTCACTCTGTCTCTTGGTACCAAGATCGAGGC	138
QY	510	TGGCCAAAGATCTCTTAACATGACGCTTAACCAACGGAAAACTPAAGGTTAAACAGATGCG	569
	11		
Db	139	TGGCCAAAGATCTCTTAACATGACGCTTAACCAACGGAAAACTPAAGGTTAAACAGATGCG	198
QY	570	TTCATTTACCTGTAGCCCAACATTTGGCTTTGGCATCTGAAAGATGGGAAACGCTACCT	629
	11		
Db	199	TTCATTTACCTGTAGCCCTAACATTTTCGTTGGCATCTGAAAGATGGGAAACGCTACCT	258
QY	630	ACAGACATCTTACGCTGATGGTGTATGTGCTTAAACACAGCATCAAAATCCCAATGCT	689
	11		
Db	259	ACGAAATATCTTACGCTGATGGTGTATGTGCTTAAACACAGCATCAAAATCCCAATGCT	318
QY	690	CATTAACCTGATGAAAGAGGAGGACGACGAAAAACGTGTCGGGCAATTCGTAATTCACCTT	749
	11		
Db	319	CATTAACCTGATGAAAGAGGAGGACGACGAAAAACGTGTCGGGCAATTCGTAATTCACCTT	378
QY	750	TATTCATTAATGTGGGGGATTTTCAAGCTCCGAGCTGGTGAAGAAAAATAGCATTCAG	809
	11		
Db	379	TATTCATTAATGTGGGGGATTTTCAAGCTCCGAGCTGGTGAAGAAAAATAGCATTCAG	438
QY	810	GTGTCCAAACCTTTCCTGCTGGATCCGGATCAAGATCGACGACACTTTGGGCTTCAAA	869
	11		
Db	439	GTGTCCAAACCTTTCCTGCTGGATCCGGATCAAGATCGACGACACTTTGGGCTTCAAA	898
QY	870	GTTCAGGACATGAGTCA	887
	11		
Db	499	GTTCAGGACATGAGTCA	516

Search completed: September 10, 2003, 23:09:38
Job time : 416 secs